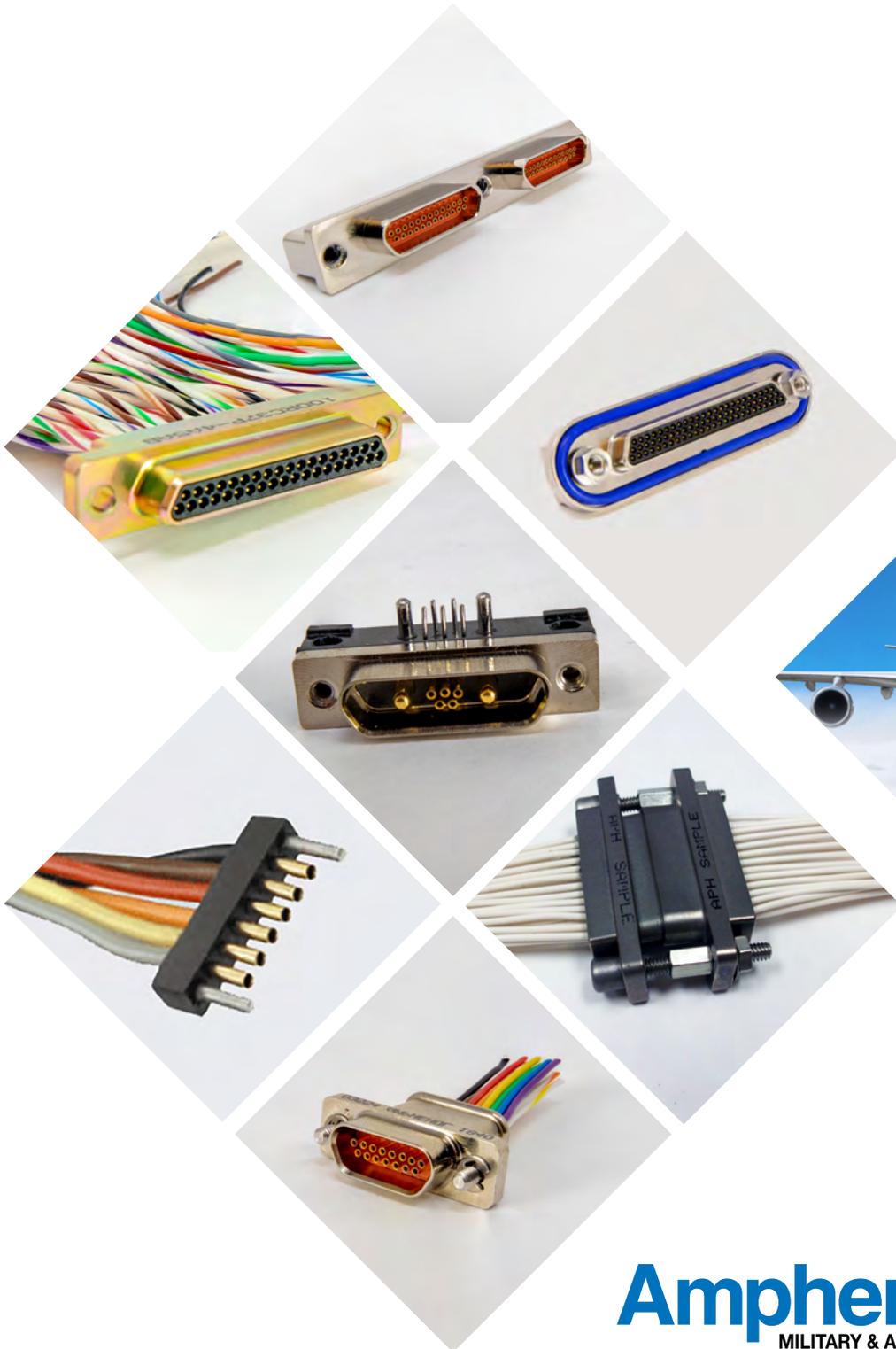


MICRO-D CONNECTORS

ELEVATING SIGNAL INTEGRITY IN AEROSPACE AND MILITARY APPLICATIONS



Engineered Solutions
Designed to Fit



Amphenol CANADA
MILITARY & AEROSPACE

Amphenol CANADA

MILITARY & AEROSPACE



For more than 50 years, Amphenol Canada Corp. a subsidiary of Amphenol Corporation has been an international leader in the manufacture of Rectangular I/O and EMI Filtered Connectors.

We design, manufacture and test EMI / EMP filter and non-filter connectors, which are used worldwide in military, aerospace, and commercial applications. As part of Amphenol Corporation, we have the advantage of access to technologies and processes of Amphenol's worldwide facilities. Our expertise in understanding and supporting our customers' interconnect needs has earned us a reputation of excellence among the world's leading users of electronic components.

CUSTOMER SERVICE

At Amphenol Canada, customer service is a solid commitment from all our employees. Our product managers, application engineers, product specialists, and sales representatives are able to answer your questions and assist you in choosing the right connectors for your applications.

Whether you need standard or custom designed connectors, our marketing department is your liaison with Amphenol Canada's engineering, quality and manufacturing experts.

QUALITY AND RELIABILITY

Certified to ISO 9001 and AS9100D, Amphenol Canada's broad base of customers and the high levels of technology in which they are involved make it essential that Amphenol's own products are of the highest quality and reliability.

Please contact us for RoHS requirements.

TABLE OF CONTENTS

Wired Connectors

- » 100, 102 & 104 Series
- » 101 Series
- » 105 Series
- » MDH series
- » 107 Series
- » 108 Series
- » 115 & 116 Series
- » 119 Series
- » ClickMate
- » M13 Series

PCB Connectors

- » 100, 102 & 104 Series
- » 101 Series
- » MDH Series
- » 107 Series
- » 108 Series
- » 110 Series
- » Micro C Series
- » M13 Series

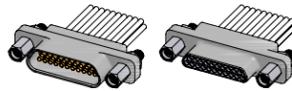
Standard Profile 100, 102 & 104 Series Page 13



Reversed Standard Profile 110 Series Page 39



Low Profile 108 Series Page 45



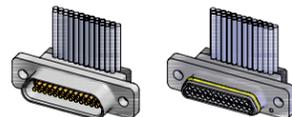
Plastic Low Profile 101 Series Page 57



Sealed Micro-D 107 Series Page 67



Right Angle Wires 115 & 116 Series Page 89



Integrated Backshell 119 Series Page 95



Stripline 105 Series Page 101



High Temperature Micro-D MDH Series Page 107



Keyed Hardware K Series Page 113



Surface Mount SMT Series Page 119



Solderless Surface Mount Micro C Series Page 131



Latching Standard ClickMate Series Page 119



Filtered Micro-D M13 Series Page 139



Introduction	6
Performance Data	7
Terminology	8
Contact Arrangements	9
Panel Mounting Guide	10
Panel Dimensions	11

STANDARD MICRO-D

M83513 QUALIFIED

Standard Profile — 100, 102, & 104 series	13
Harnessed Connectors	14
Dimensions	17
PCB Connectors	18
CBR HBR Style	21
BR Style	26
BS Style	29
C6 H6 & C16 H16 Style	32

Reversed Standard Profile — 110 series	39
PCB Connectors	40
Reversed CBR Style	41

Low Profile — 108 series.	45
Harnessed Connectors	46
Dimensions	48
PCB Connectors	49
CBR Style	50
Reversed CBR Style (118 series)	52

ENVIRONMENTAL & MATERIAL OPTIONS

M83513 QUALIFIED

Plastic Low Profile — 101 series	57
Harnessed Connectors	58
Dimensions	61
PCB Connectors	62
BS Style	63
BR Style	64
CBR Style	65

Stripline Micro-D — 105 series.	67
Harnessed Connectors	68
Dimensions	70

Sealed Micro-D — 107 series	73
Harnessed Connectors	74
Dimensions	76
PCB Connectors	77
C6 H6 Style	78
CBR HBR Style	83
Reversed CBR HBR Style (117 series)	88

High Temperature Micro-D — MDH series	95
Harnessed Connectors	96
PCB Connectors	98

MECHANICAL & LOCKING TYPES

Right Angle Wires — 115 & 116 series	101
Harnessed Connectors	102
Dimensions	104

Integrated Shell Micro-D — 119 series	107
Harnessed Connectors	108
Dimensions	109

Keyed Hardware Micro-D — K series.	113
Harnessed Connectors	114
PCB Connectors	116

ClickMate Series — Latching Standard.	119
Harnessed Connectors	120

BOARD-LEVEL SOLUTIONS

Surface Mount Micro-D — SMT series	123
PCB Connectors	124
CE Style	125
HM Style	126
VM Style	127
Terminations Layout	128

Micro C Series — Solderless Surface Mount	131
PCB Connectors	132
VC Style	134

FILTERED & EMI SOLUTIONS

Filtered Micro-D — M13 series	139
Harnessed & PCB Connectors	140
Performance Data	141
Dimensions	142

ACCESSORIES

Connector Saver	149
Dimensions	150

EMI Backshells	151
Elliptical Cable Exit	152
Circular Cable Exit	154

Standard Hardware.	157
Dimensions	158

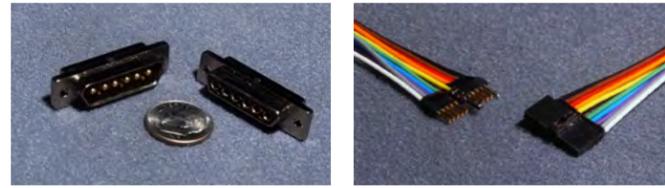
Dust Caps.	163
---------------------------	------------

Design Capabilities.	164
-------------------------------------	------------

Wire Gauge Charts	166
------------------------------------	------------

Part Number Cross Reference	167
--	------------

Engineered to meet and exceed MIL-DTL-83513 standards, Micro-D Connector Series provides a robust platform for a wide range of applications. With options ranging from rectangular and stripline connectors to customizable card edge configurations, including signal and coax/power contacts, our Micro-D connectors offer a tailored solution for diverse connectivity needs. Their compact design ensures efficiency without compromising performance.



ENGINEERED SOLUTIONS DESIGNED TO FIT

Amphenol Canada is a leading innovator in micro miniature connectors, driven by a comprehensive design approach. Our connectors comply with military standards and offer a wide range of options, integrating power, signal, coaxial, and fiber optic contacts for various market applications.

We take pride in our superior quality contact systems, which include precision-stamped and formed pin contacts, precision-fabricated tube socket contacts, and epoxy retention in high-grade thermoplastic insulators. This ensures unparalleled reliability, surpassing traditional D-sub connectors with a fourfold increase in density. Our commitment to exceeding performance specifications sets us apart.

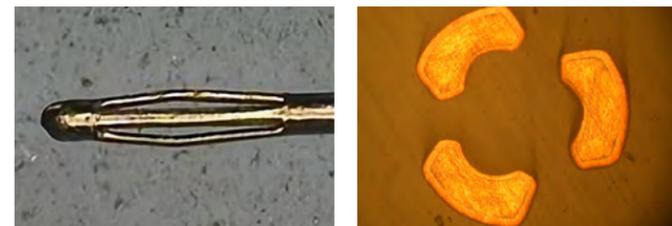
At Amphenol Canada, we provide customizable terminations, shells, mounting hardware, and backshells tailored to meet unique application requirements. Whether it's for aerospace or ground systems, choosing Amphenol Canada means selecting a partner dedicated to delivering micro-D connectors that integrate seamlessly into your systems, ensuring precision and top-notch performance.

OUR MARKETS

Commercial Aircraft	Space
Military Aircraft	Naval
Missiles & Missile Defense	Avionics
C4ISR	Soldier Systems
Unmanned Systems	Ground Systems & Vehicles

PRECISION-STAMPED & FORMED CONTACTS

Amphenol Canada is at the forefront of transformative connector design, introducing a groundbreaking approach with its precision-stamped and formed contacts. Departing from conventional methods, these contacts represent an innovative Amphenol design that exceeds industry standards, particularly meeting and surpassing the stringent MIL-DTL-83513 requirements. What sets them apart is the meticulous use of gold over nickel plating, establishing a new benchmark for performance and reliability.



3 Tyne Compression

Au/Ni barrier
(Uniform plating thickness)

One-piece Design: Fully qualified with a seamless contact boasting evenly spaced compliant tines.

Gold Over Nickel Plating: Sets a performance standard, ensuring high precision and reliability, with consistent plating thickness for optimal conductivity.

Automated Stamping: Eliminates variations, providing a consistent and reliable contact system.

Integrated Engaging End: Guarantees uniform insertion forces, prioritizing ease of use with low mating and unmating forces.

Ideal for Critical Applications: Suited for space and satellite, showcasing reliability in demanding environments.

Continuous Connection: Features a line contact for superior performance over multi-point connections.

Amphenol Canada's M83513 Micro-D connectors are qualified for the Qualified Products List (QPL) maintained by the Defense Logistics Agency (DLA). Other ACC Micro-D series connectors are designed to meet the same performance requirements.

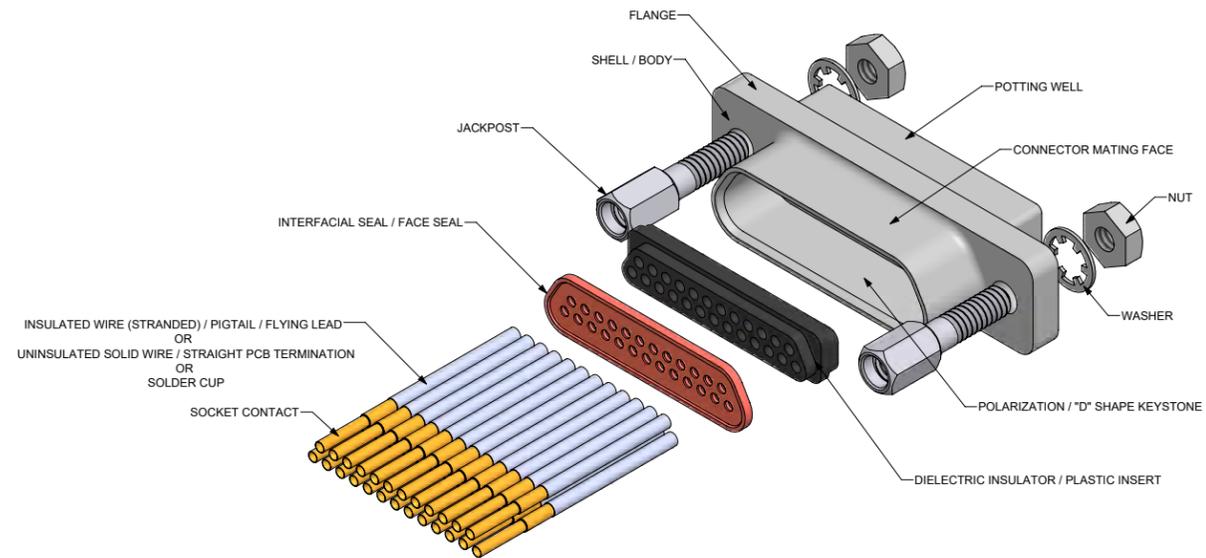
Test Description	Specification/ Method *	Limits	
Contact Rating		≤ 3 A	
Magnetic Permeability	ASTM-A342/A342M	≤ 2.0 μ	
D.W.V. (Test voltage rms 60 Hz ac volts)	EIA-364-20	At sea level: 600 VAC for solder pot and standard wire (Test voltage RMS 60 Hz AC volts)	At 70,000 ft altitude (reduced barometric pressure): 150 VAC for solder pot and standard wire
Insulation Resistance	EIA-364-21	≥ 5 GΩ/min.	
Contact Resistance	EIA-364-23	8 mΩ at 3 A	
Contact Engagement Force	MIL-DTL-83513	≤ 6.0 oz.	
Contact Separation Force	MIL-DTL-83513	≥ 0.5 oz.	
Connector Mating Force	MIL-DTL-83513	≤ 10 oz. × n° of contacts	
Connector Unmating Force	MIL-DTL-83513	≥ 0.5 oz. × n° of contacts	
Thermal Shock (Temperature Cycling)	EIA-364-32, condition I, 5 cycles	No physical damage from -55°C to +125°C (-67°F to +257°F)	
Mechanical Shock (Specified Pulse)	EIA-364-27, condition E	No physical damage and no loosening of parts No loss of continuity > 1 micro-sec.	
Vibration	EIA-364-28, condition IV	No physical damage and no loosening of parts No loss of continuity > 1 micro-sec.	
Durability	MIL-DTL-83513	500 mating cycles at a rate of 200 ±100 CPH	
Salt Spray (Corrosion)	EIA-364-26, condition B	Meets mateability and contact resistance requirements	
Fluid Immersion	MIL-DTL-83513	Meets mateability requirements	
Humidity	EIA-364-31	Meets D.W.V. and insulation resistance requirements ≥ 1 MΩ after step 6 ≥ 1 GΩ after 24 hrs of conditioning	
Insert Retention (class M)	MIL-DTL-83513	50 lbs psi (axial load)	
Solderability	MIL-STD-202, method 208	Withstand test condition	
Contact Retention E	IA-364-29	≥ 5 lbs (axial load)	
Thermal Vacuum Outgassing (Space Classes)	SP-R-0022 or ASTM E595	Exceeds MIL-DTL-83513 requirements; Standard is ≤ 1.0% (Space Classes) TML and ≤ 0.1% VCM of original mass	

The above data applies to a standard Amphenol Canada Micro-D connector that is in accordance with the MIL-DTL-83513 specification. Variations from standard products may cause performance to vary.

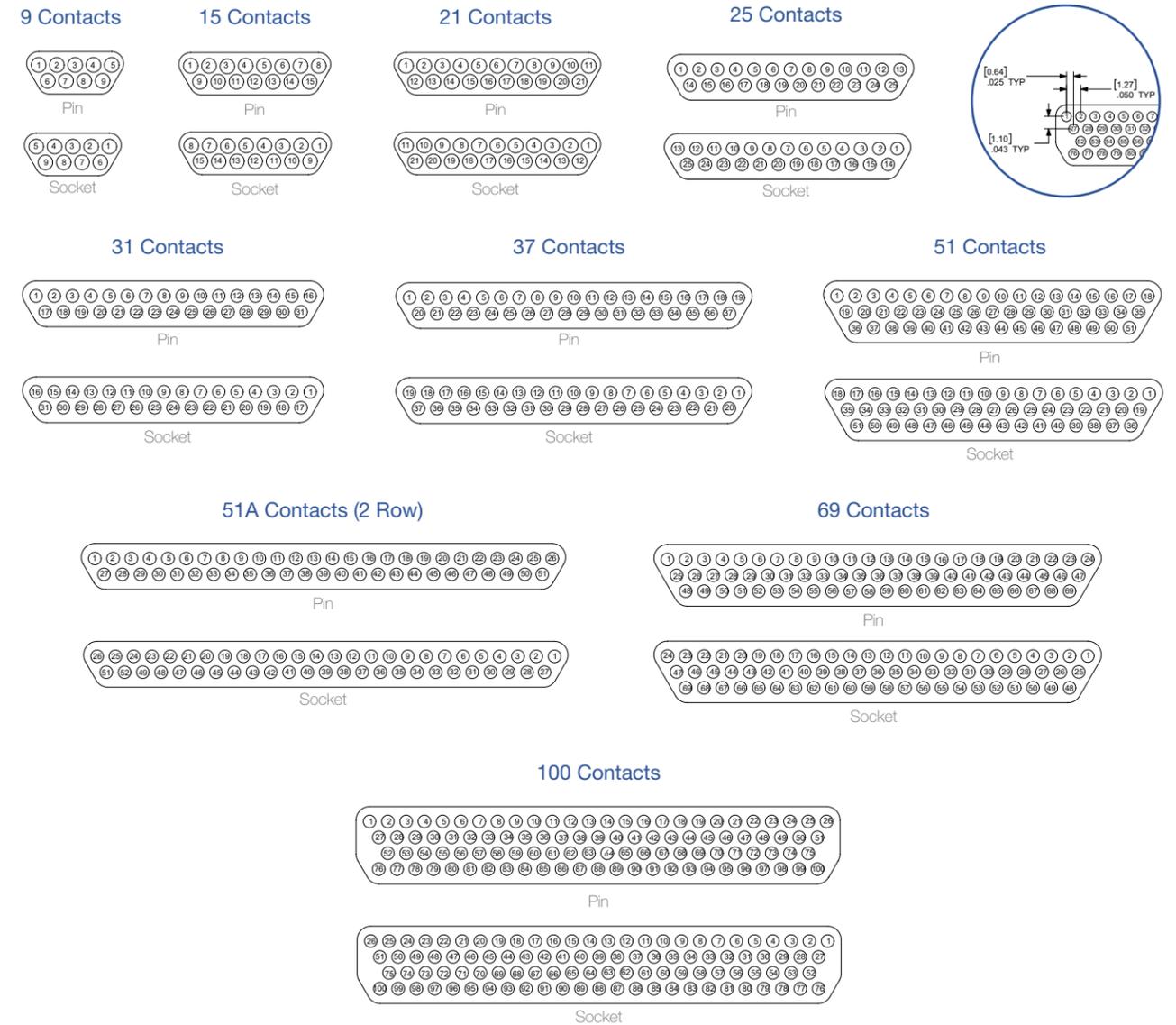
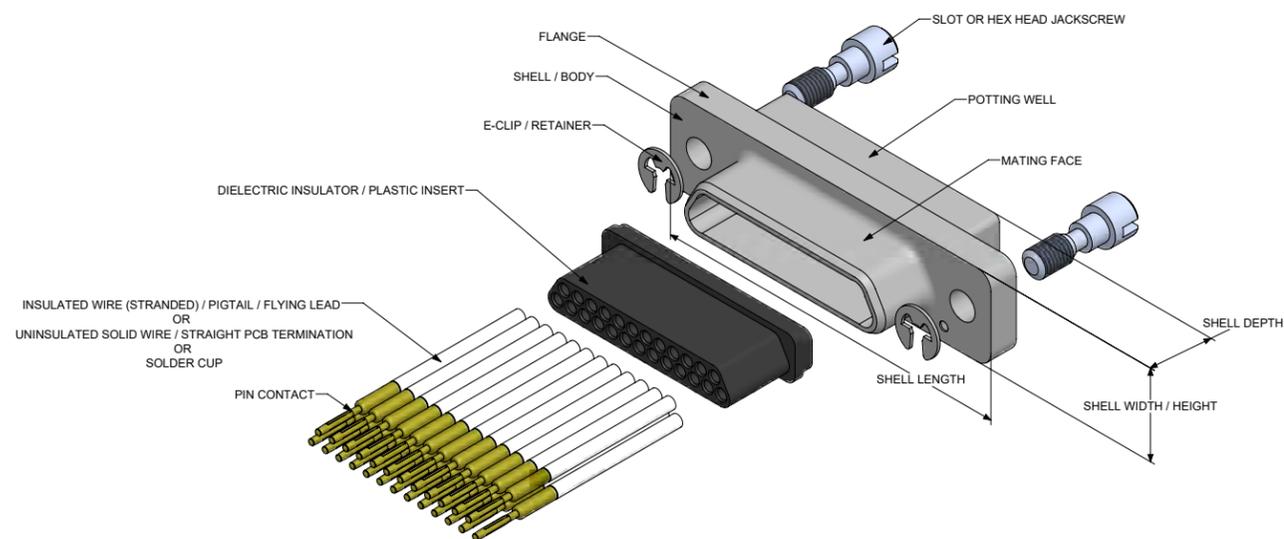
Consult factory for special applications and requirements.

DETAILED VIEW OF MICRO-D CONNECTORS

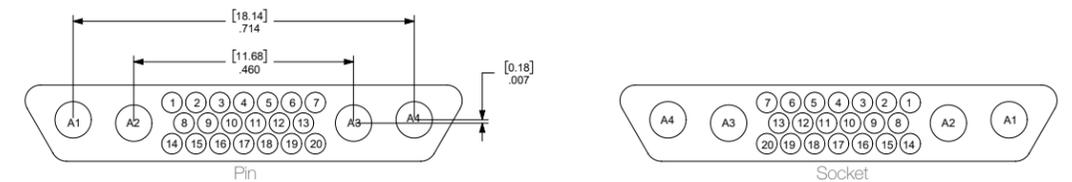
RECEPTACLE / FEMALE / SOCKET CONNECTOR



PLUG / MALE / PIN CONNECTOR



24W4 / 24P44
Coax/Power
20 signal contacts
51 way Micro-D shell



7W2 / 7P2
Coax/Power
5 signal contacts
25 way Micro-D shell



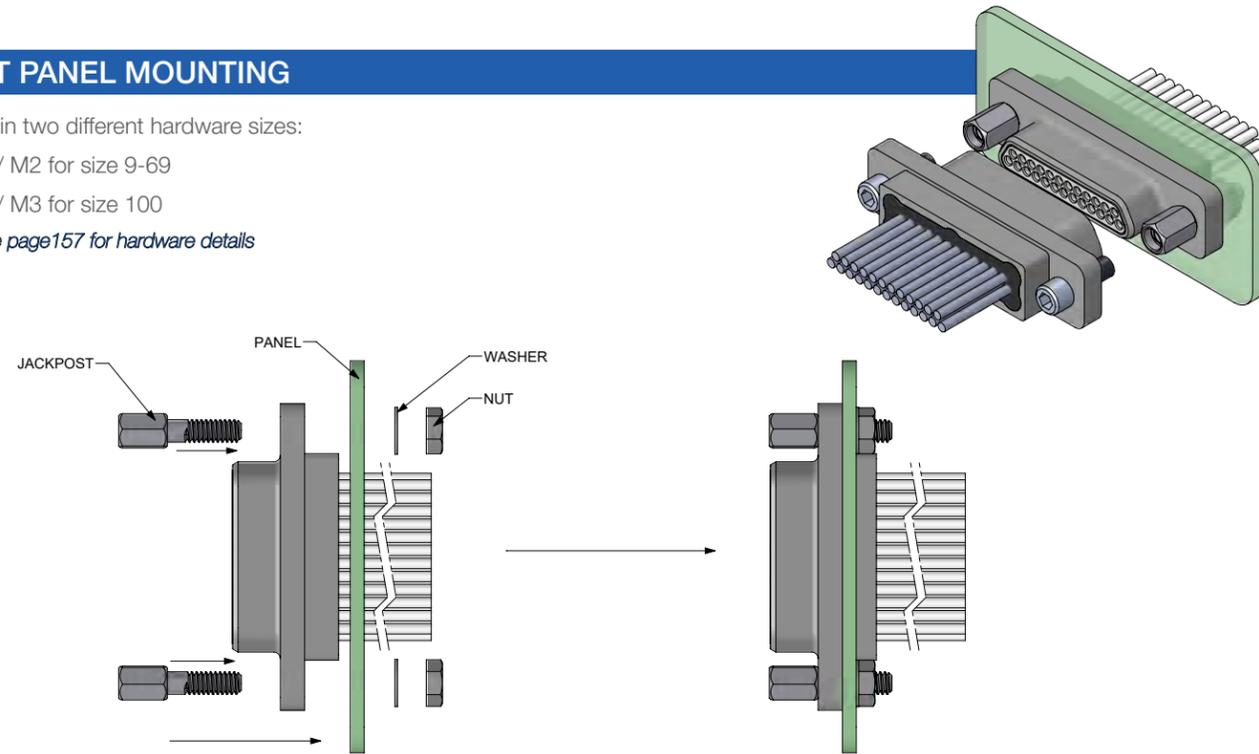
*Cavity identification numbers are for reference only and do not appear on the connector. Coax and power contacts are not to MIL-spec.

FRONT PANEL MOUNTING

Available in two different hardware sizes:

- #2-56 / M2 for size 9-69
- #4-40 / M3 for size 100

Please see page 157 for hardware details



REAR PANEL MOUNTING

Available in two different hardware sizes:

- #2-56 / M2 for size 9-69
- #4-40 / M3 for size 100

Please see page 157 for hardware details

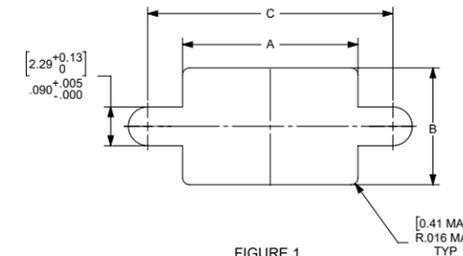
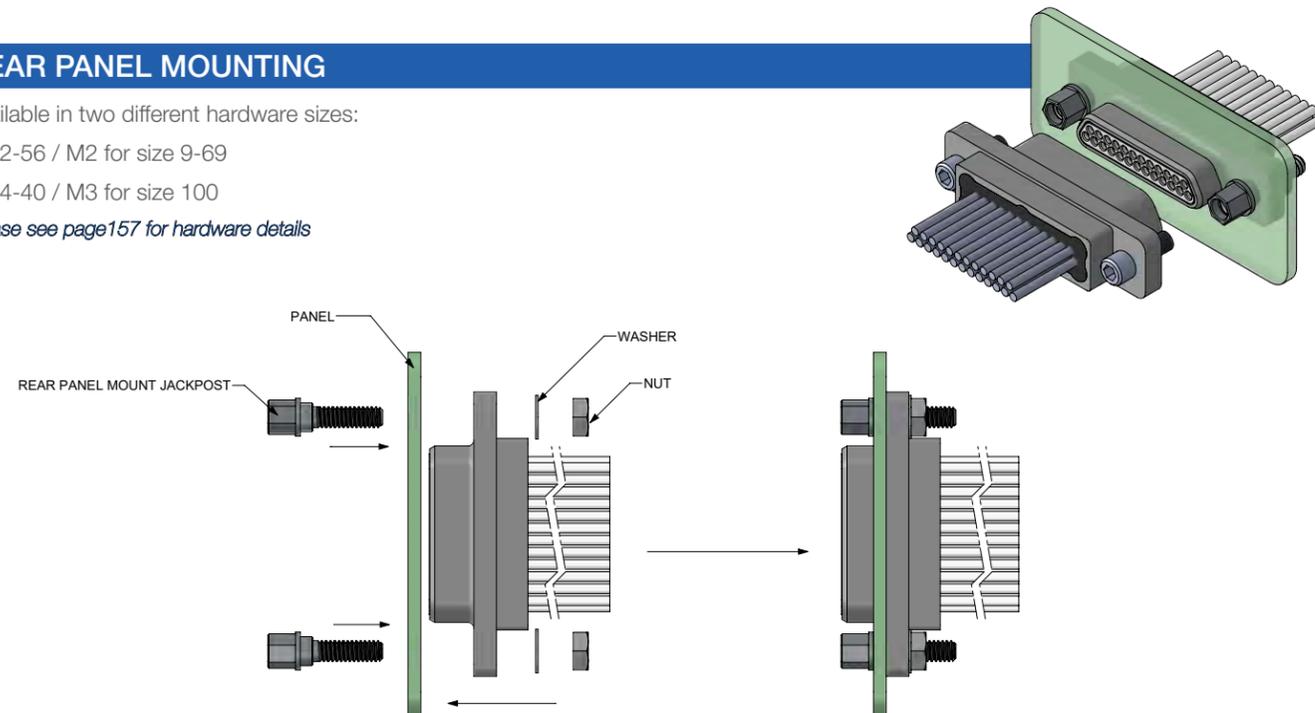


FIGURE 1
SIZE 9-69 FRONT MOUNTING

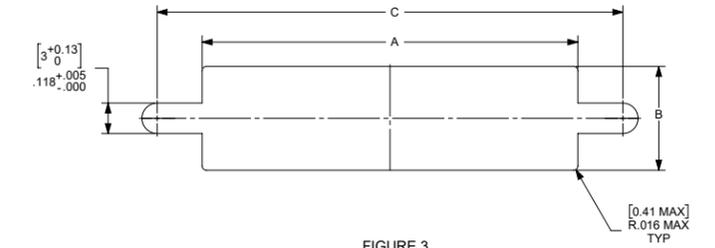


FIGURE 3
SIZE 100 FRONT MOUNTING

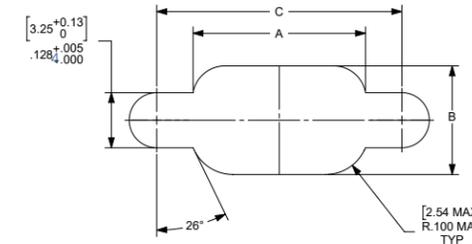


FIGURE 2
SIZE 9-69 REAR MOUNTING

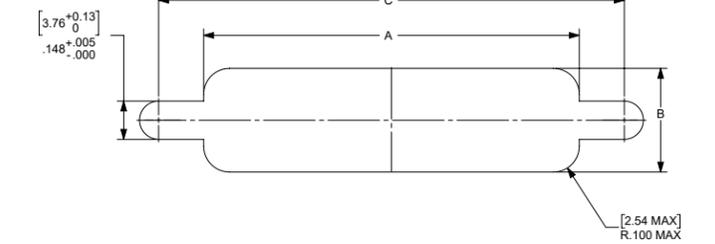


FIGURE 4
SIZE 100 REAR MOUNTING

Dimensions are in inch (mm)

SIZE	FIGURE	A	B	C
		+0.004 (0.10) -0.000 (0.00)	+0.004 (0.10) -0.000 (0.00)	+0.005 (0.13) -0.000 (0.00)
9	1	.404 (10.26)	.274 (6.96)	.570 (14.48)
	2	.408 (10.36)	.258 (6.55)	.570 (14.48)
15	1	.554 (14.07)	.274 (6.96)	.720 (18.29)
	2	.559 (14.20)	.258 (6.55)	.720 (18.29)
21	1	.704 (17.88)	.274 (6.96)	.870 (22.10)
	2	.709 (18.00)	.258 (6.55)	.870 (22.10)
25	1	.804 (20.42)	.274 (6.96)	.970 (24.64)
	2	.809 (20.55)	.258 (6.55)	.970 (24.64)
31	1	.954 (24.23)	.274 (6.96)	1.120 (28.45)
	2	.959 (24.36)	.258 (6.55)	1.120 (28.45)
37	1	1.104 (28.04)	.274 (6.96)	1.270 (32.26)
	2	1.109 (28.17)	.258 (6.55)	1.270 (32.26)
51	1	1.054 (26.77)	.315 (8.00)	1.220 (30.99)
	2	1.059 (26.90)	.301 (7.64)	1.220 (30.99)
69	1	1.354 (34.39)	.315 (8.00)	1.520 (38.62)
	2	1.358 (34.49)	.301 (7.64)	1.520 (38.62)
100	3	1.446 (36.73)	.364 (9.25)	1.805 (45.85)
	4	1.459 (37.06)	.406 (10.31)	1.805 (45.85)

Notes:

¹ Shell sizes 9-69 front mounting (Figure 1) and rear mounting (Figure 2) cutouts accommodate #2-56 screws.

² Shell size 100 front mounting (Figure 3) and rear mounting (Figure 4) cutouts accommodate #4-40 screws.

101 SERIES

Dimensions are in inch (mm)

SIZE	FIGURE	A	B	C
		+0.004 (0.10) -0.000 (0.00)	+0.004 (0.10) -0.000 (0.00)	+0.005 (0.13) -0.000 (0.00)
9	1	.412 (10.46)	.177 (4.50)	.570 (14.48)
	2	.385 (9.78)	.223 (5.66)	.570 (14.48)
15	1	.562 (14.27)	.177 (4.50)	.720 (18.29)
	2	.535 (13.59)	.223 (5.66)	.720 (18.29)
21	1	.712 (18.08)	.177 (4.50)	.870 (22.10)
	2	.685 (17.40)	.223 (5.66)	.870 (22.10)
25	1	.812 (20.62)	.177 (4.50)	.970 (26.64)
	2	.785 (19.94)	.223 (5.66)	.970 (26.64)
31	1	.962 (24.43)	.177 (4.50)	1.120 (28.45)
	2	.935 (23.75)	.223 (5.66)	1.120 (28.45)
37	1	1.112 (28.24)	.177 (4.50)	1.270 (32.26)
	2	1.085 (27.56)	.223 (5.66)	1.270 (32.26)
51	1	1.062 (26.97)	.225 (5.71)	1.220 (30.99)
	2	1.035 (26.29)	.265 (6.73)	1.220 (30.99)

Sizes 69 & 100 are not applicable for 101 series plastic connectors.

MIL-DTL-83513
QUALIFIED SUPPLIER



STANDARD PROFILE

100, 102 & 104 SERIES

Amphenol CANADA
MILITARY & AEROSPACE

Standard Micro-D

Environmental &
Material Options

Mechanical &
Locking Types

Board-Level
Solutions

Filtered &
EMI Solutions

Accessories

The Amphenol Canada 100 Series Micro-D Connector excels in precision connections across industries, ideal for compact spaces. Its sleek design and durability ensure top performance, trusted globally for reliability.

Essential for aerospace and defense, it sets the standard for connectivity excellence.

FEATURES

HARNESSED CONNECTORS

- Supplied pre-wired and fully potted
- Plastic and metal shells are intermateable and intermountable
- Metal shells to provide RF/EMI shielding

PCB CONNECTORS

- Available in straight and right angle termination style
- Solid copper 24 AWG PCB leads, Tin plated, and solder dipped

SPECIFICATIONS

Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Plastic	Polyphenylene Sulfide (Ryton) or equivalent
Shell	Finish	» Anodized (Black) » Zinc Nickel (Black Chromate) » Cadmium (Yellow Chromate) » Olive Drab Cadmium » Chem Film
		» Gold » Zinc Nickel - 48 hrs » Pure Electro-Deposited Al » Nickel fluorocarbon polymer » Electroless Nickel
Insulator / PCB Backshell		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel
	Spacing	0.050" (1.27mm) centers
	Quantity	9 15 21 25 31 37 51 69 100
Hardware		Stainless steel, passivated
Potting Material	Standard	EP1730-1 or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling		Friction or Jackscrews into jackposts/threaded Inserts

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11	12
E	100	R	N	25	P	4	A	5	F	P	48

RoHS Compliance

E	RoHS Compliant
	Blank for Non-RoHS

Series

100	Metal Shell Per M83513
102	Plastic Shell (Dimensionally identical to 100 series)
104	Passivated Stainless Steel (Dimensionally identical to 100 series)

Insulator Material

R	Polyphenylene Sulfide (Ryton)
----------	-------------------------------

Shell Finish

	Omit for 102 & 104 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts)

09	25	51
15	31	69
21	37	100

Connector Type

P	Plug
S*	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with Ground Spring

** Interfacial seal not include for 102 series*

Wire Size (AWG)

1	32	4*	26
2	30	5†	25
3	28	6	24

SOLDER CUP

Omit for Standard Solder Cup	7	Special 24 AWG
------------------------------	----------	----------------

** M83513 Standard
† Solid Wire Only*

Wire Type

Omit for Standard Solder Cup

GENERAL APPLICATIONS

A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)

MILITARY APPLICATIONS

E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Finish (Color)

Omit for Solder Cup

1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf
7	1 st 15 colors black thru white/Yellow Repeated (Size 21+ Only)
8*	Twisted Pairs, White/Blue
9*	Twisted Pairs, White/Blue, Marked

** Consult factory for details*

Wire Length – Dimensions in inches

Omit for Standard Solder Cup

A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory

Metric Codes Available

MOUNTING HOLE

B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

Hardware — Pre-installed by factory

Metric Codes Available

Continued

JACKPOSTS

P	Standard Jackpost
----------	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

FLOAT MOUNT

F	Forward Float Mount
R	Reverse Float Mount

JACKSCREWS

M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

Non-Standard Length Code

Dimensions in inches

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110 = .110" 999 = .999"

PART BUILDER

Download 2D drawings & 3D models using our [Part Builder](#)



FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com
 ☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

M83513 QUALIFIED

SOLDER CUP TERMINATION

PART NUMBER KEY

Connector Series	Specification Sheet	Insert Arrangement	Shell Finish
1 M83513	2 01	3 H	4 P

Connector Series	1 M83513 Micro-D MIL-DTL-83513 spec.
------------------	--------------------------------------

Insert Arrangement	3	
A 9	D 31	G 51
B 15	E 37	H 100
C 21	F 51	

Shell Finish	4
C Cadmium	
N Electroless Nickel	
P Passivated Stainless Steel	

Specification Sheet	2
01 Plug (pin)	
02 Receptacle (socket)	

CRIMP TERMINATION

PART NUMBER KEY

Connector Series	Specification Sheet	Insert Arrangement	Wire Type	Shell Finish
1 M83513	2 03	3 D	4 01	5 N

Connector Series	1 M83513 Micro-D MIL-DTL-83513 spec.
------------------	--------------------------------------

Wire Type	4
03 M22759/11-26-[], 18"	
04 M22759/11-26-[], 36"	
05 A-A-59551, Type S, 25 AWG, except shall be gold plated 10 micro-inches; 0.5"	
06 A-A-59551, TYPE S, 25 AWG, except shall be gold plated 10 micro-inches; 1.0"	
07 A-A-59551, TYPE S, 25 AWG, tin plated 100 micro-inches; 0.5"	
08 A-A-59551, TYPE S, 25 AWG, tin plated 100 micro-inches; 1.0"	
09 M22759/33-26-9, 18"	
10 M22759/33-26-9, 36"	
11 M22759/33-26-[], 18"	
12 M22759/33-26-[], 36"	
13 M22759/11-26-9, 72"	
14 M22759/11-26-[], 72"	

Wire Type	4
15 M22759/33-26-9, 72"	
16 M22759/33-26[], 72"	
17 04035-26A-9, 18"	
18 04035-26A-9, 36"	
19 04035-26A-9, 72"	
20 04035-26A-[], 18"	
21 04035-26A-[], 36"	
22 04035-26A-[], 72"	

* All wire lengths (inches) +1.0"/-0.0"

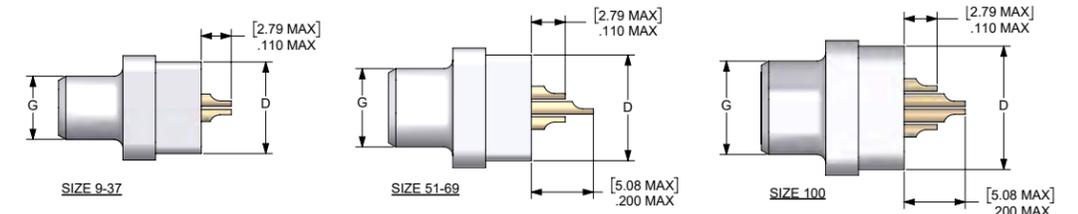
Shell Finish	5
C Cadmium	
N Electroless Nickel	
P Passivated Stainless Steel	

Insert Arrangement	3	
A 9	D 31	G 51
B 15	E 37	H 100
C 21	F 51	

Wire Type	4
01 M22759/11-26-9, 18"	
02 M22759/11-26-9, 36"	

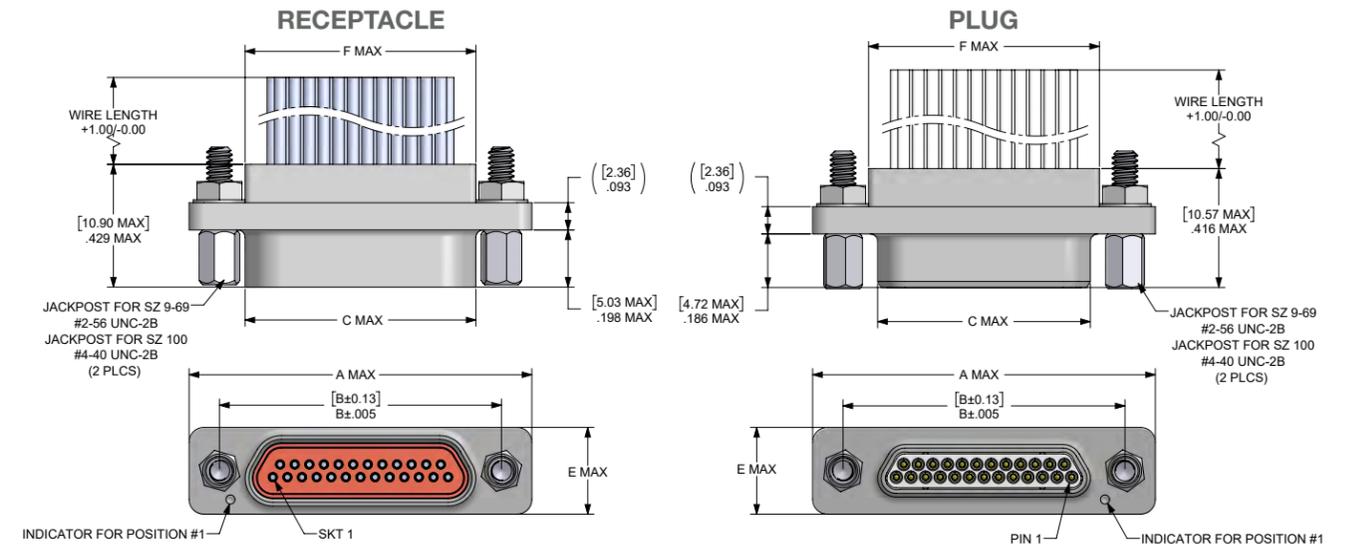
SOLDER CUP TERMINATION PLUG/RECEPTACLE¹

M83513/01 & /02



CRIMP/WIRE TERMINATION

M83513/03 & /04



Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	C MAX		D MAX	E MAX	F MAX	G MAX	
			PLUG	RECEPTACLE				PLUG	RECEPTACLE
09	.785 (19 .94)	.565 (14.35)	.334 (8.48)	.402 (10.21)			.400 (10.16)		
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)			.550 (13.97)		
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)			.700 (17.78)		
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)	.270 (6.86)	.308 (7.82)	.800 (20.32)	.185 (4.70)	.253 (6.43)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)			.950 (24.13)		
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)			1.100 (27.94)		
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)	.310 (7.87)	.351 (8.92)	1.050 (26.67)	.228 (5.79)	.296 (7.52)
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.357 (34.47)			1.350 (34.29)		
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.13)	1.452 (36.88)	.360 (9.14)	.394 (10.01)	1.442 (36.63)	.271 (6.88)	.333 (8.46)

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Termination Type	Hardware	Threaded Insert	Lead Length	Non-Standard Length Code
1 E	2 100	3 R	4 N	5 25	6 P	7 BR	8 P	9 T	10 F	11 125

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

100	Metal Shell Per M83513
102	Plastic Shell (Dimensionally identical to 10 series)
104	Passivated Stainless Steel (Dimensionally identical to 100 series)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 102 & 104 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	25	51
15	31	69
21	37	100

Connector Type 6

P	Plug
S*	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

* Interfacial seal not include for 102 series

Termination Type Other Types Available 7

CBR	Narrow Right Angle PCB Per M83513 /10 - /15
HBR	High Density CBR
BR	Right angle PCB Per M83513 /16 - /21
BS	Straight PCB Per M83513 /22 - /27
C6	Straight PCB Per M83513 /28 - /33
H6	High Density C6
C16	Straight PCB with Flange (C6 PCB Configuration)
H16	High Density C16

Hardware — Pre-installed by factory Metric Codes Available 8

Omit for no threaded Insert

MOUNTING HOLE

B*	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

FLOAT MOUNT *

F	Forward Float Mount
R	Reverse Float Mount

Hardware — Pre-installed by factory Metric Codes Available 8

Continued

JACKSCREWS *

M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

JACKPOSTS

P	Standard Jackpost
---	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

* Only available for C16/H16 terminations and are not pre-installed by Factory

Threaded Insert * 9

	Omit for no threaded Insert
T	#2-56 Threaded Insert (Size 9-69)
U	#4-40 Threaded Insert (Size 100 Only)
V	M2 Threaded Insert (Size 9-69)
Z	M3 Threaded Insert (Size 100 Only)

▲ Pre-installed PCB mounting options

Lead Length – Dimensions in inches 10

1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code Dimensions in inches 11

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110 = .110" 999 = .999"

PART BUILDER

Download 2D drawings & 3D models using our [Part Builder](#)



FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com
 ☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

M83513 QUALIFIED

PCB TERMINATION

PART NUMBER KEY

Connector Series	Specification Sheet	Insert Arrangement	Lead Length	Shell Finish	Hardware
1 M83513	2 10	3 A	4 01	5 N	6 P

Connector Series
M83513 Micro-D MIL-DTL-83513 spec.

Specification Sheet

10	Plug (Pin), CBR Type, Size 9-37
11	Plug (Pin), CBR Type, Size 51
12	Plug (Pin), CBR Type, Size 100
13	Receptacle (Socket), CBR Type, Size 9-37
14	Receptacle (Socket), CBR Type, Size 51
15	Receptacle (Socket), CBR Type, Size 100
16	Plug (Pin), BR Type, Size 9-37
17	Plug (Pin), BR Type, Size 51
18	Plug (Pin), BR Type, Size 100
19	Receptacle (Socket), BR Type, Size 9-37
20	Receptacle (Socket), BR Type, Size 51
21	Receptacle (Socket), BR Type, Size 100
22	Plug (Pin), BS Type, Size 9-37
23	Plug (Pin), BS Type, Size 51
24	Plug (Pin), BS Type, Size 100
25	Receptacle (Socket), BS Type, Size 9-37
26	Receptacle (Socket), BS Type, Size 51
27	Receptacle (Socket), BS Type, Size 100
28	Plug (Pin), C6 Type, Size 9-37
29	Plug (Pin), C6 Type, Size 51
30	Plug (Pin), C6 Type, Size 100

Specification Sheet
Continued

31	Receptacle (Socket), C6 Type, Size 9-37
32	Receptacle (Socket), C6 Type, Size 51
33	Receptacle (Socket), C6 Type, Size 100

Insert Arrangement

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

* Applicable for spec. sheet 11, 14, 17, 20, 23, 26, 29 & 32
† Applicable for spec. sheet 12, 15, 18, 21, 24, 27, 30 & 33

Lead Length – Dimensions in inches

01	0.109 ± 0.015
02	0.140 ± 0.015
03	0.172 ± 0.015

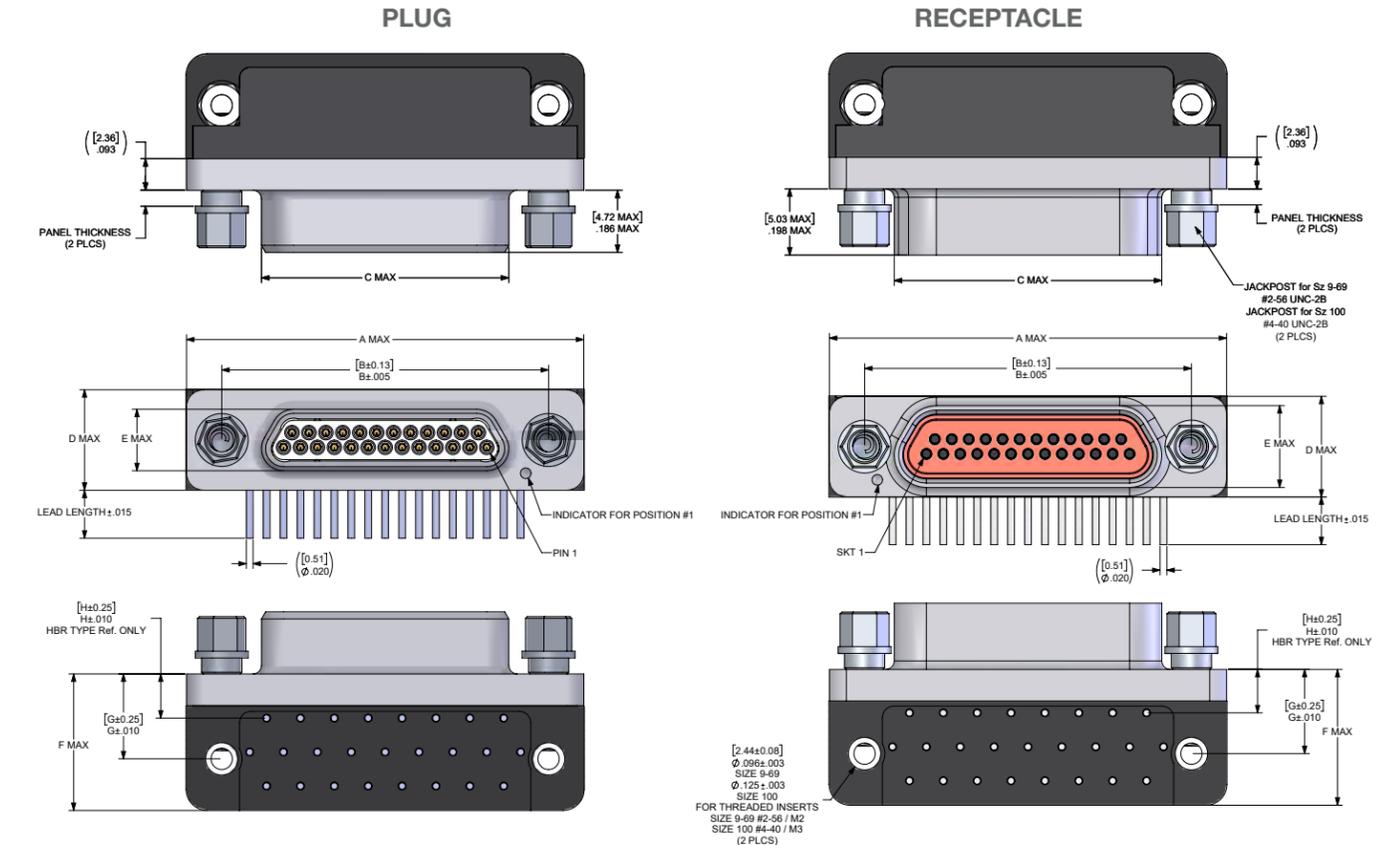
Shell Finish

C	Cadmium
N	Electroless Nickel
P	Passivated Stainless Steel

Hardware

N	No Jackpost or Threaded Insert
P	Jackpost
T	Threaded Insert
W	Jackpost and Threaded Insert

CBR | HBR TERMINATION BOARD RIGHT ANGLE CONNECTOR NARROW PROFILE

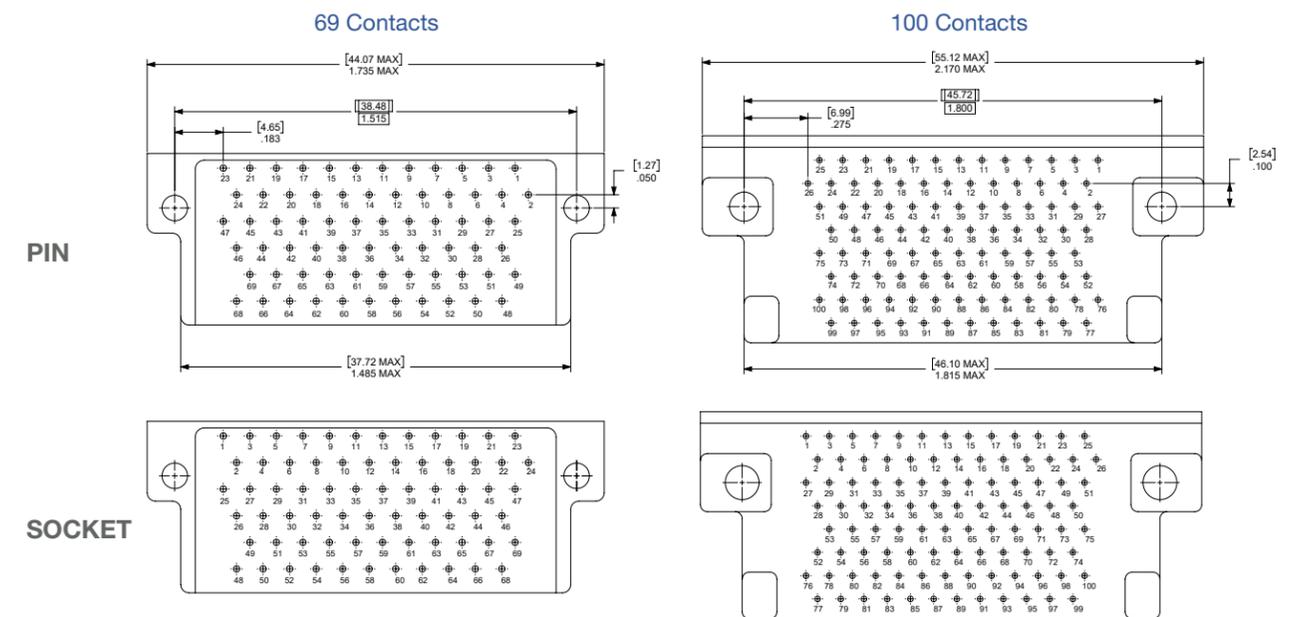
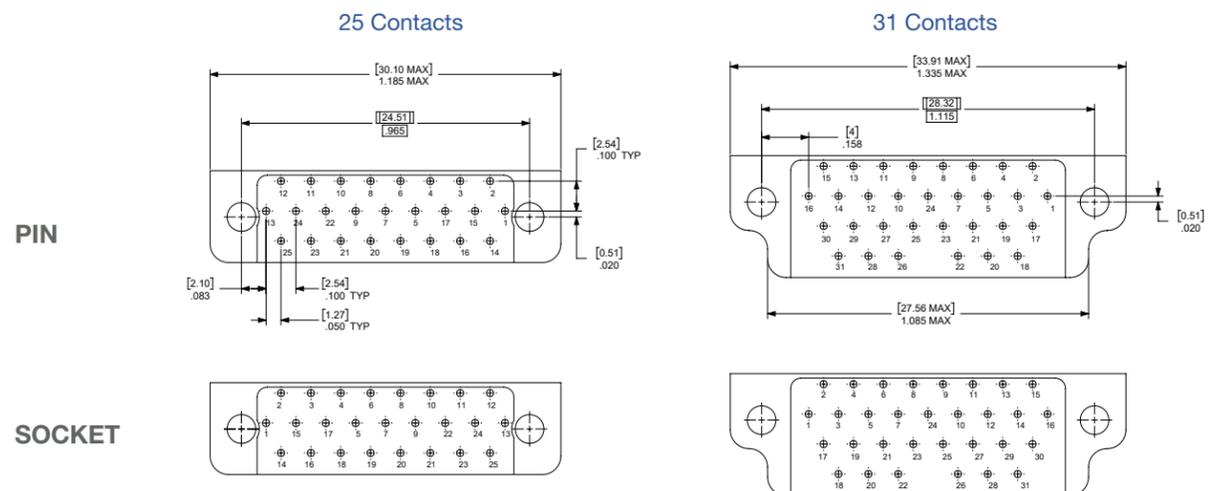
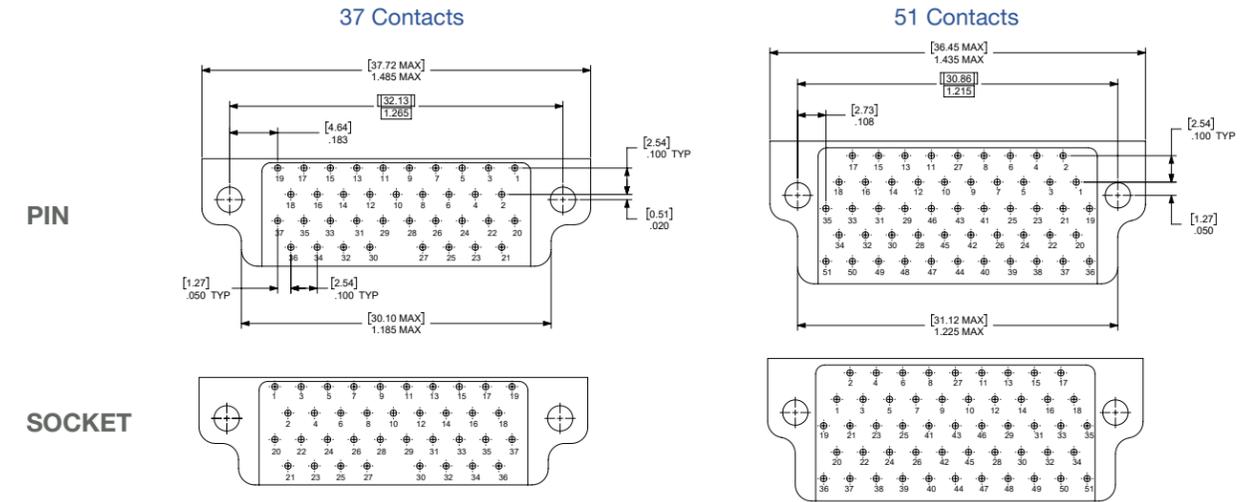
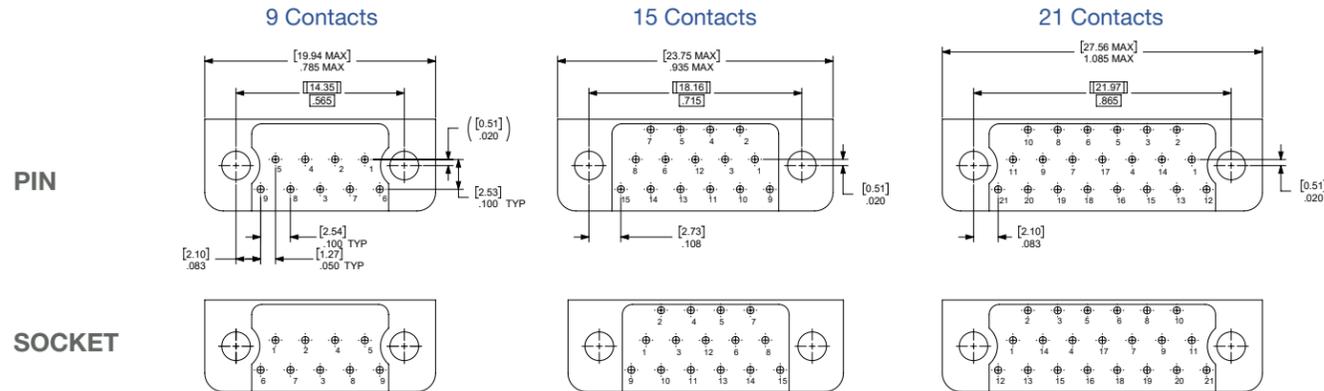


Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C MAX		D MAX	E MAX		F MAX		G ± 0.010 (0.25)	H	
			PLUG	RCPT		PLUG	RCPT	CBR	HBR		CBR ± 0.010 (0.25)	HBR REF.
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)							.230 (5.84)	.213 (5.41)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)								
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.308 (7.82)	.185 (4.70)	.253 (6.43)	.420 (10.67)	.400 (10.16)	.250 (6.35)	.130 (3.30)	.175 (4.45)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)				.520 (13.21)				
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)								
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)								
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)	.351 (8.92)	.228 (5.79)	.296 (7.52)	.650 (16.15)	.490 (12.45)	.300 (7.62)	.150 (3.81)	.188 (4.78)
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.357 (34.47)				.755 (19.18)			.150 (3.81)	.188 (4.78)
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.15)	1.452 (36.88)	.394 (10.01)	.271 (6.88)	.333 (8.46)	1.000 (25.40)	.660 (16.76)	.400 (10.16)	.200 (5.08)	.213 (5.41)

CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27] — Mil. Spec. standard spacing

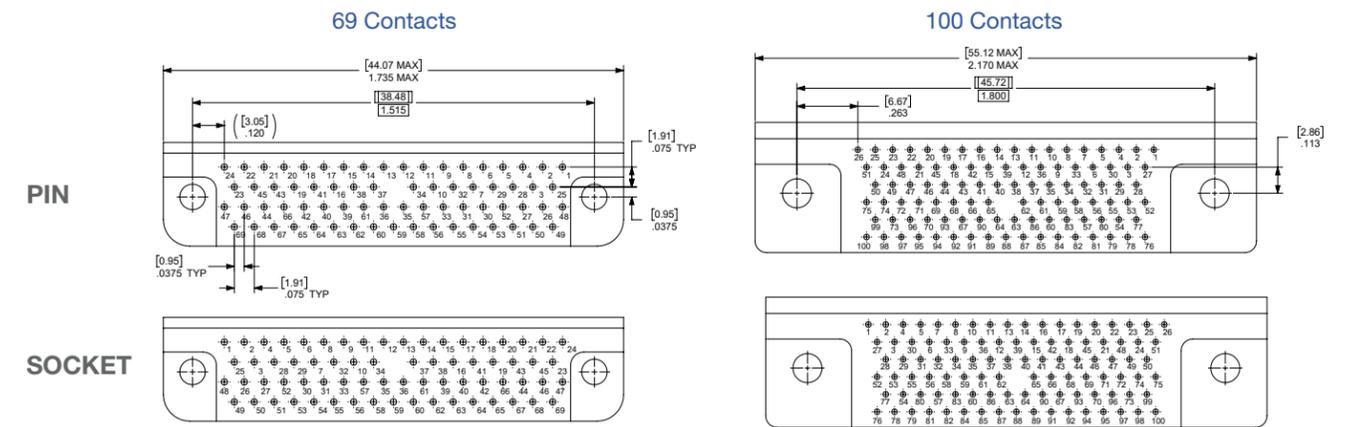
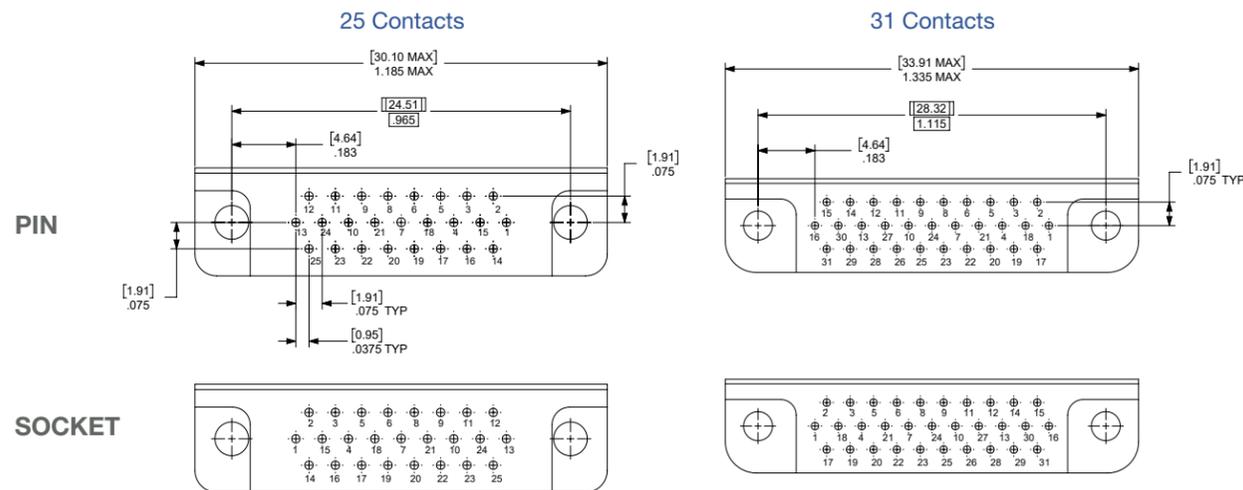
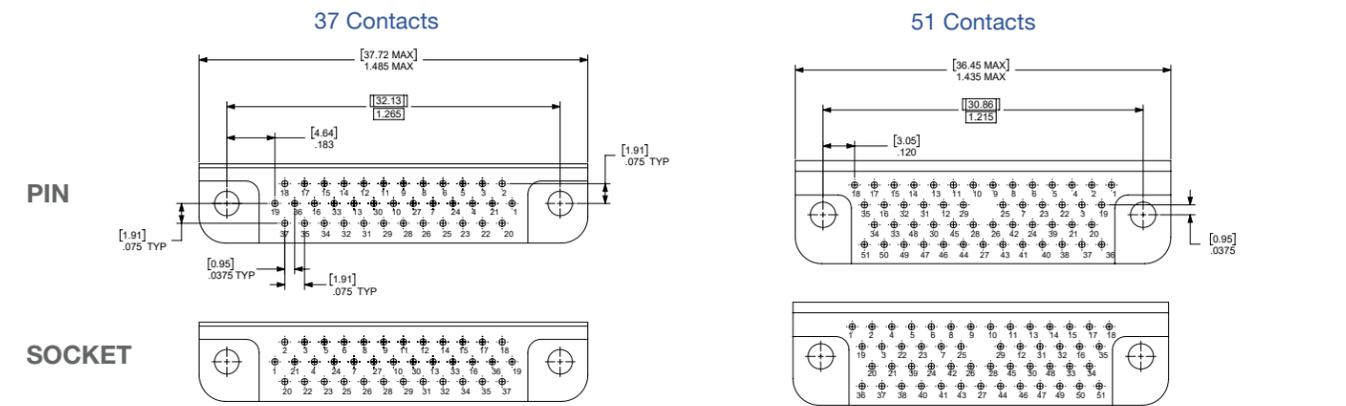
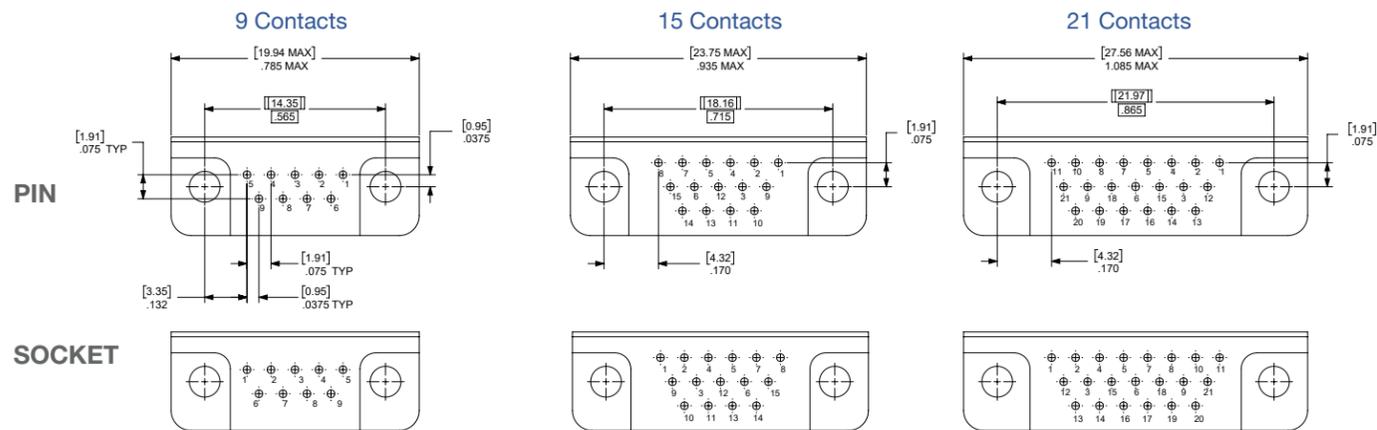


*Cavity identification numbers are for reference only and does not appear on the connector.

*Cavity identification numbers are for reference only and does not appear on the connector.

HBR TERMINATION
HIGH DENSITY BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

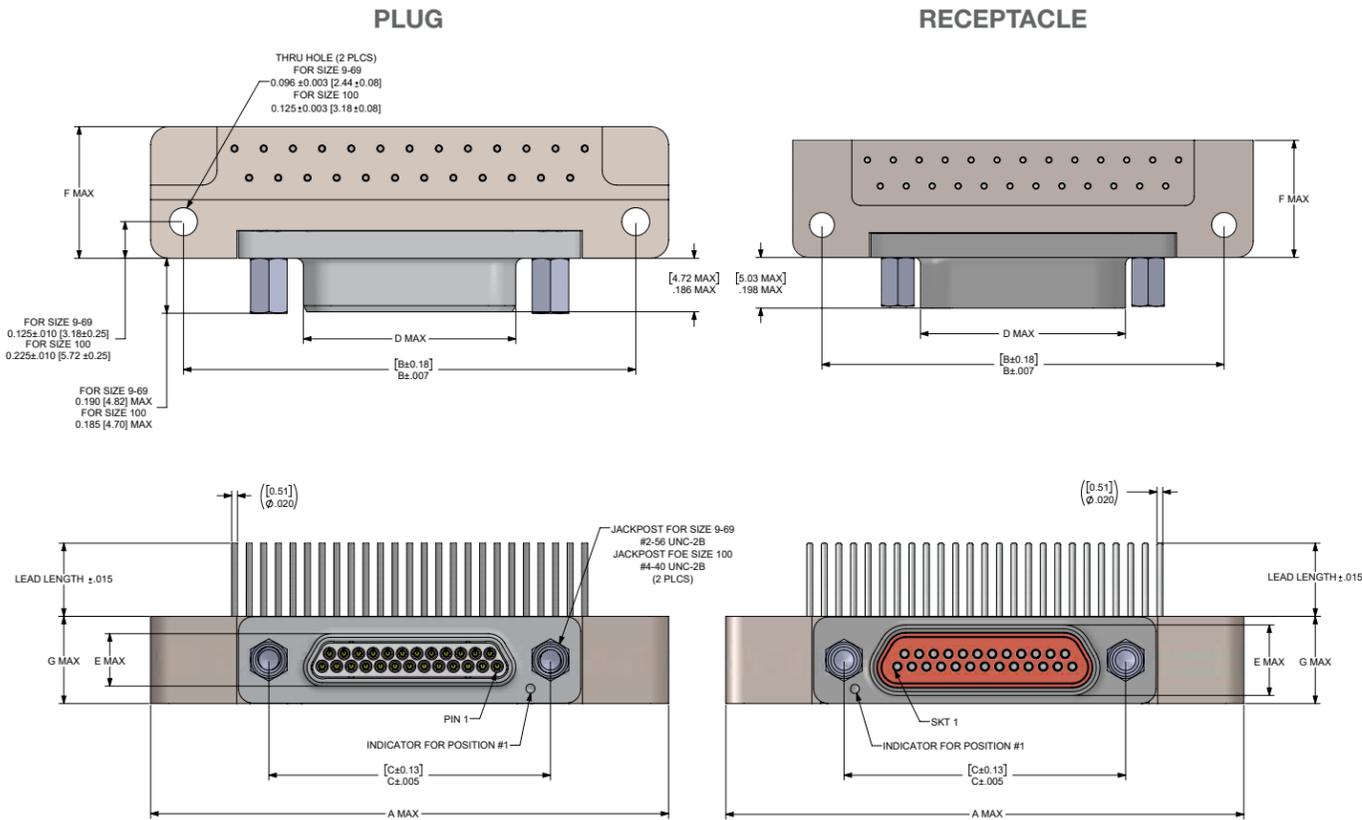
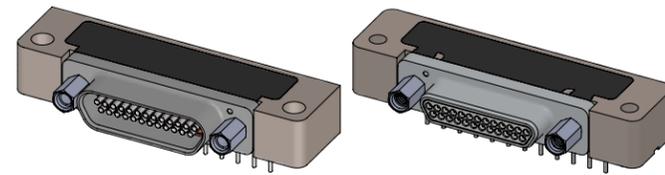
0.075 [1.91] × 0.075 [1.91] Grid Pattern, Offset 0.375 [0.95]



*Cavity identification numbers are for reference only and does not appear on the connector.

*Cavity identification numbers are for reference only and does not appear on the connector.

BR TERMINATION
BOARD RIGHT ANGLE
CONNECTOR

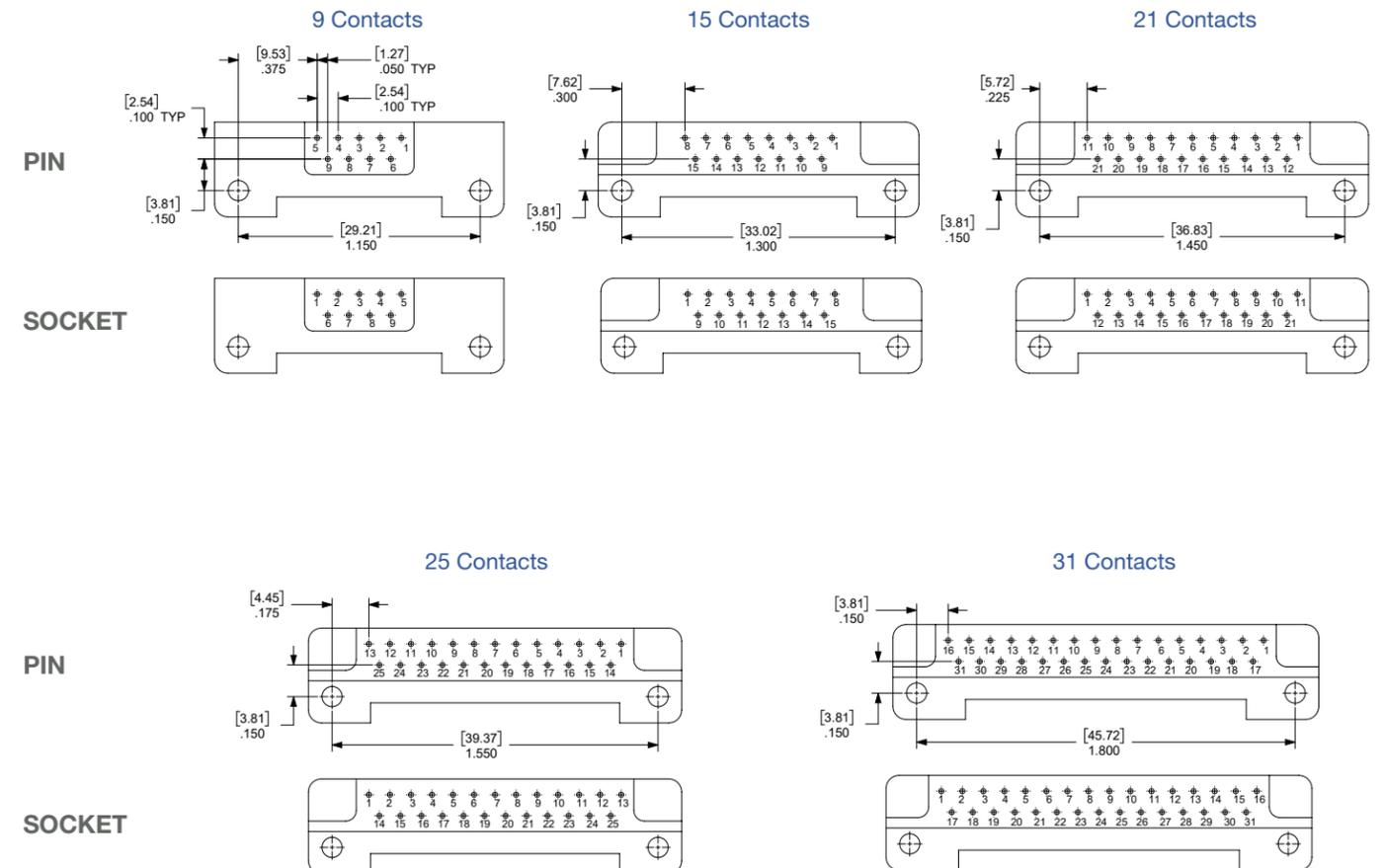


Dimensions are in inch (mm)

SIZE	A MAX	±0.005 (0.13)	±0.005 (0.13)	D MAX		E MAX		F MAX	G MAX
				PLUG	RCPT	PLUG	RCPT		
09	1.390 (35.31)	1.150 (29.21)	.565 (14.35)	.334 (8.48)	.402 (10.21)				
15	1.540 (39.12)	1.300 (33.02)	.715 (18.16)	.484 (12.29)	.552 (14.02)				
21	1.690 (42.93)	1.450 (36.83)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.185 (4.70)	.253 (6.43)	.455 (11.56)	.308 (7.82)
25	1.790 (45.47)	1.550 (39.37)	.965 (24.51)	.734 (18.64)	.802 (20.37)				
31	2.040 (51.82)	1.800 (45.72)	1.115 (28.32)	.884 (22.45)	.952 (24.18)				
37	2.340 (59.44)	2.100 (53.34)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)				
51	1.875 (47.63)	1.600 (40.64)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)	.228 (5.79)	.296 (7.52)	.565 (14.35)	.351 (8.92)
69	2.500 (63.50)	2.200 (55.88)	1.515 (34.48)	1.289 (32.74)	1.357 (34.47)				
100	2.780 (70.61)	2.500 (63.50)	1.800 (45.72)	1.384 (35.15)	1.452 (36.88)	.271 (6.88)	.394 (10.01)	.765 (19.43)	.420 (10.67)

BR TERMINATION
BOARD RIGHT ANGLE
CONNECTOR

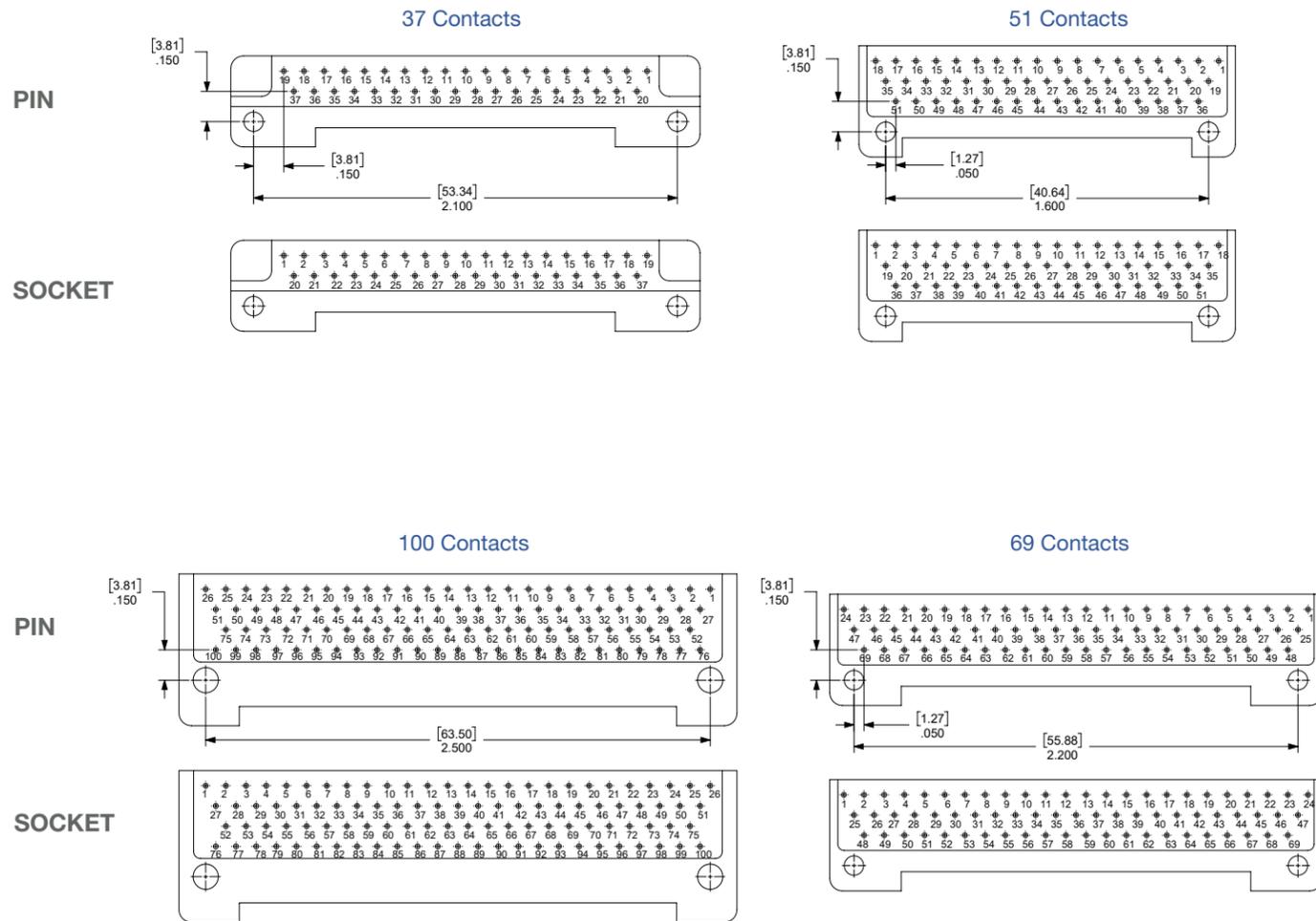
0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



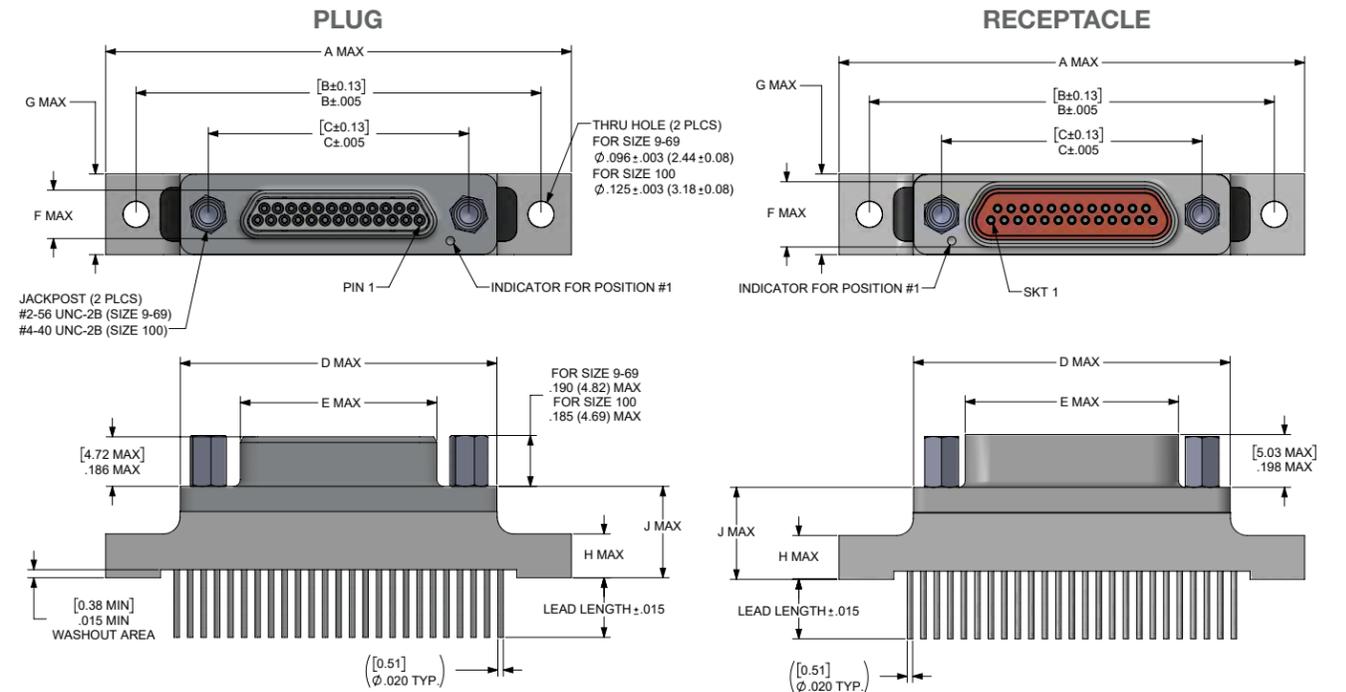
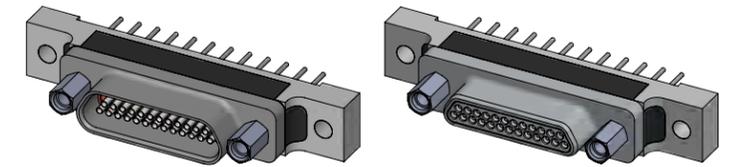
*Cavity identification numbers are for reference only and does not appear on the connector.

BR TERMINATION
BOARD RIGHT ANGLE
CONNECTOR

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



BS TERMINATION
BOARD STRAIGHT
CONNECTOR



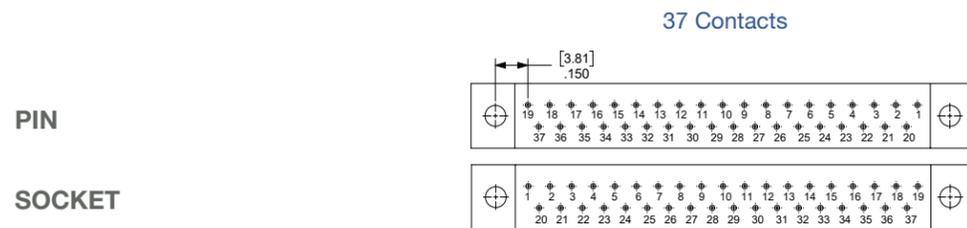
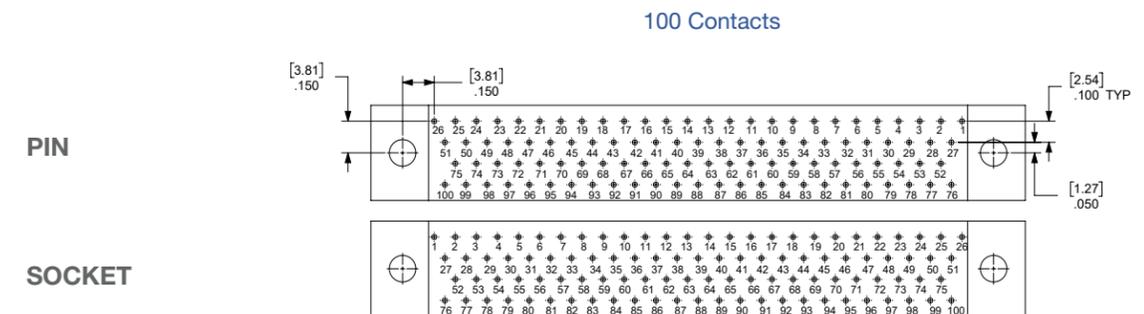
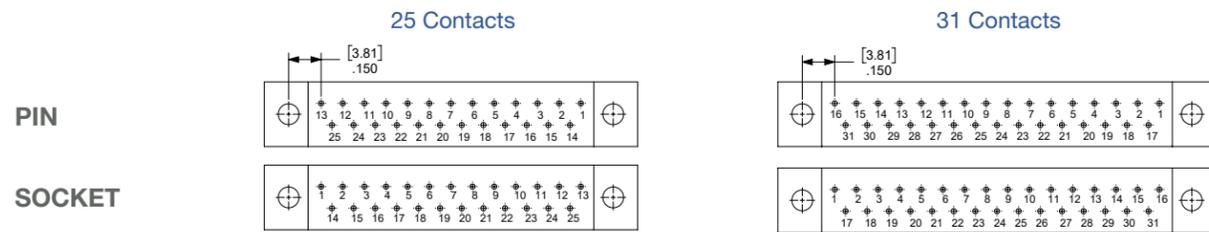
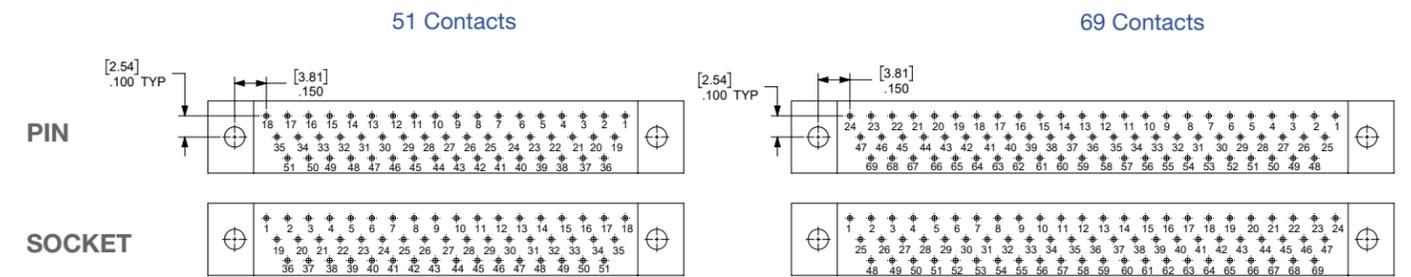
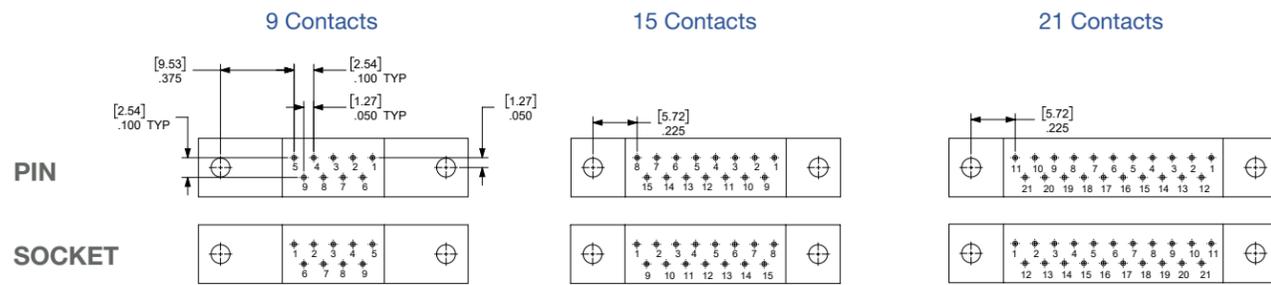
Dimensions are in inch (mm)

SIZE	A MAX	±0.005 (0.13)	±0.005 (0.13)	D MAX	E MAX		E MAX		G MAX	H MAX	J MAX
					PLUG	RCPT	PLUG	RCPT			
09	1.390 (35.31)	1.150 (29.21)	.565 (14.35)	.785 (19.94)	.334 (8.48)	.402 (10.21)					
15	1.390 (35.31)	1.150 (29.21)	.715 (18.16)	.935 (23.75)	.484 (12.29)	.552 (14.02)					
21	1.690 (42.93)	1.450 (36.83)	.865 (21.97)	1.085 (27.56)	.634 (16.10)	.702 (17.83)	.185 (4.70)	.253 (6.43)	.308 (7.82)		
25	1.740 (44.20)	1.500 (38.10)	.965 (24.51)	1.185 (30.10)	.734 (18.64)	.802 (20.37)				.165 (4.19)	.355 (9.02)
31	2.040 (51.82)	1.800 (45.72)	1.115 (28.32)	1.335 (33.91)	.884 (22.45)	.952 (24.18)					
37	2.340 (59.44)	2.100 (53.34)	1.265 (32.13)	1.485 (37.72)	1.034 (26.26)	1.102 (27.99)					
51	2.270 (57.66)	2.000 (50.80)	1.215 (30.86)	1.435 (36.45)	.984 (24.99)	1.052 (26.72)	.228 (5.79)	.296 (7.52)	.351 (8.92)		
69	2.870 (72.90)	2.600 (66.04)	1.515 (38.48)	1.735 (44.07)	1.289 (32.74)	1.357 (34.47)					
100	3.25 (82.55)	2.800 (71.12)	1.800 (45.72)	2.170 (55.12)	1.384 (35.13)	1.452 (36.88)	.271 (6.88)	.333 (8.46)	.460 (11.68)	.303 (7.70)	.550 (13.97)

*Cavity identification numbers are for reference only and does not appear on the connector.

BS TERMINATION
BOARD STRAIGHT CONNECTOR
(REAR VIEW)

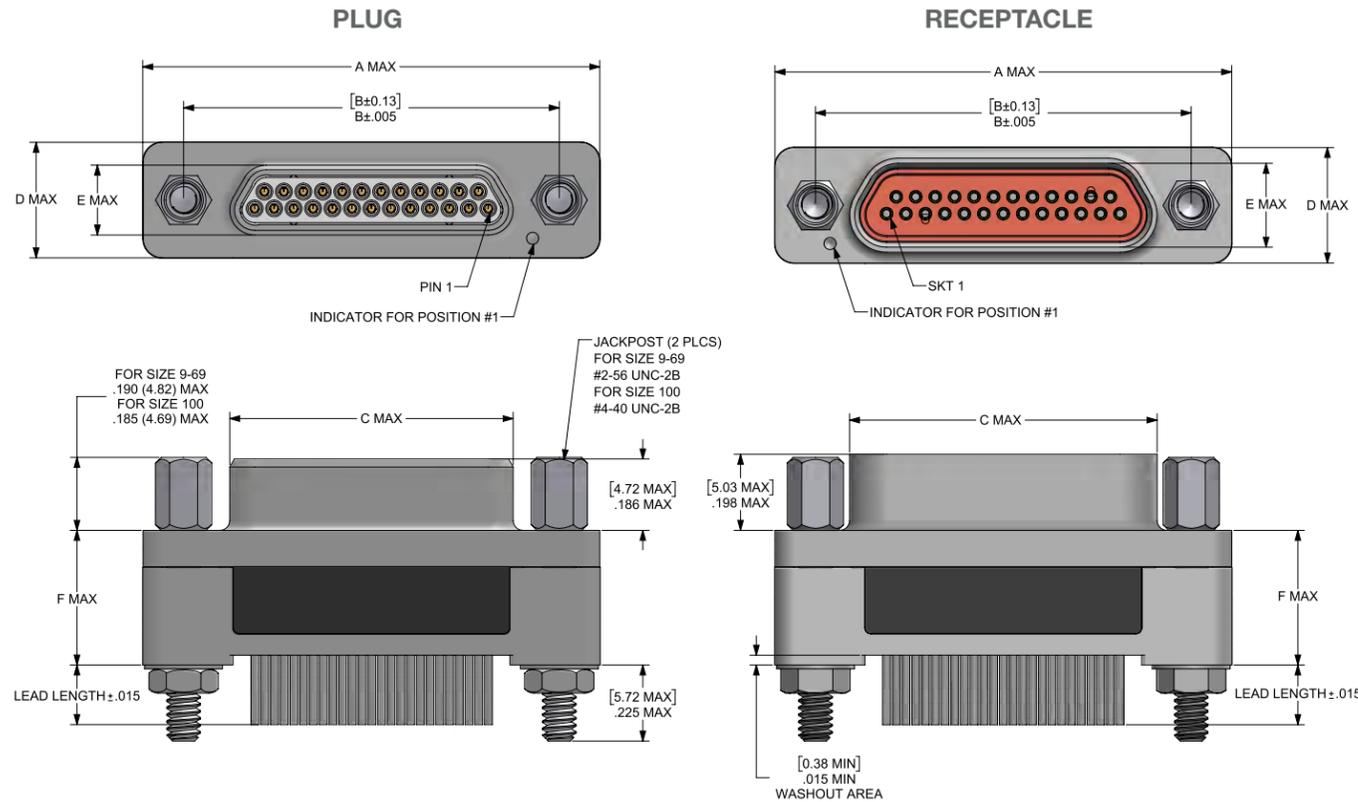
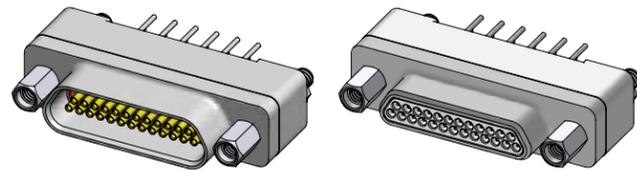
0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



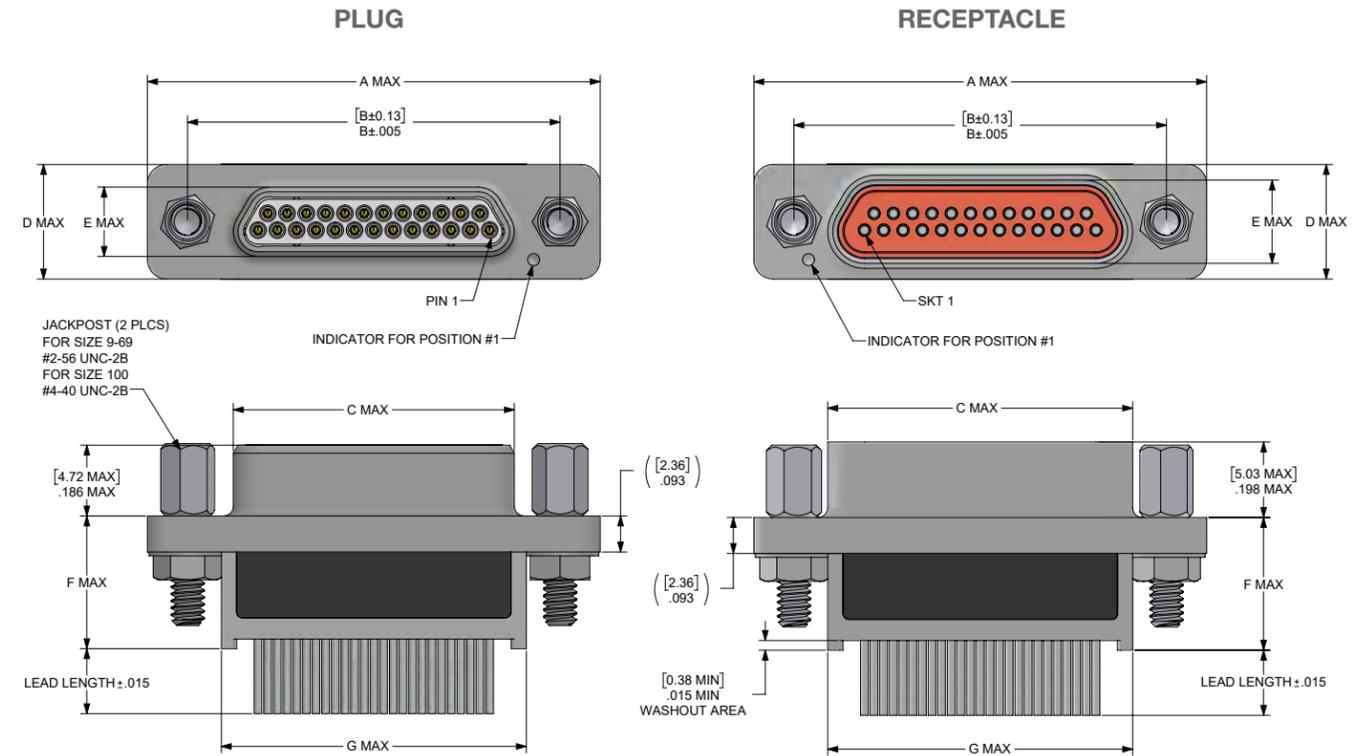
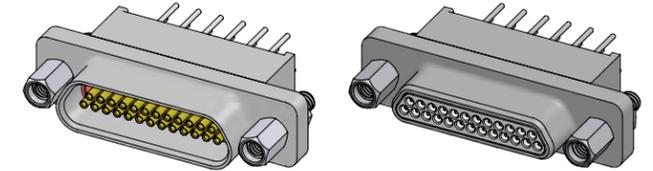
*Cavity identification numbers are for reference only and does not appear on the connector.

*Cavity identification numbers are for reference only and does not appear on the connector.

C6 | H6 TERMINATION
BOARD STRAIGHT
CONNECTOR



C16 | H16 TERMINATION
BOARD STRAIGHT
CONNECTOR



Dimensions are in inch (mm)

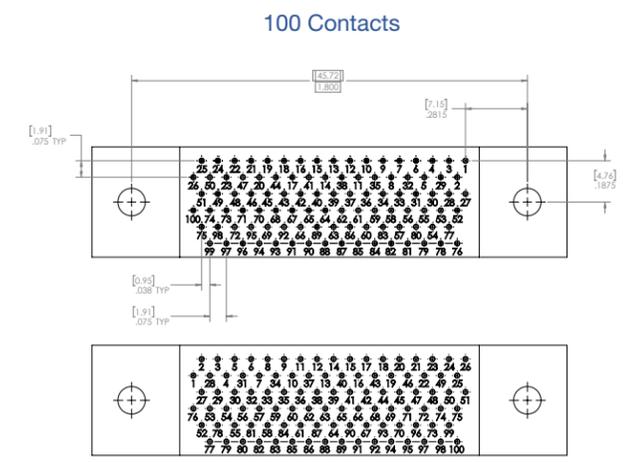
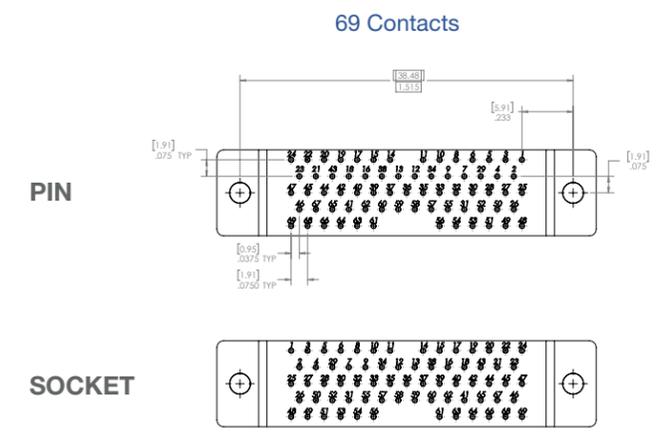
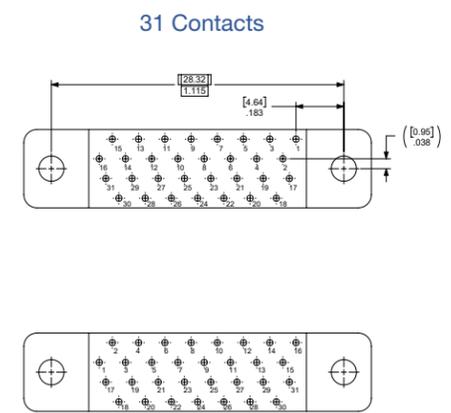
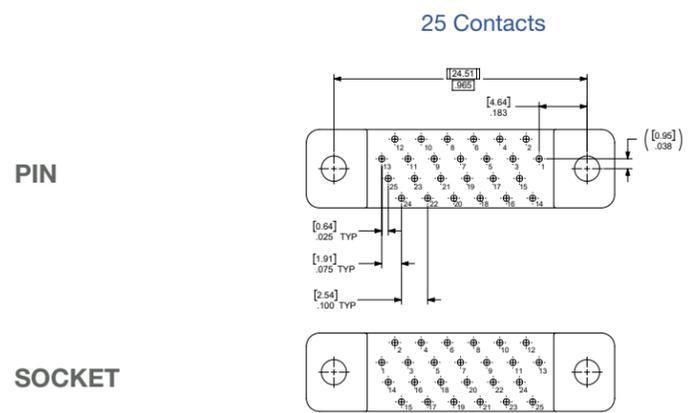
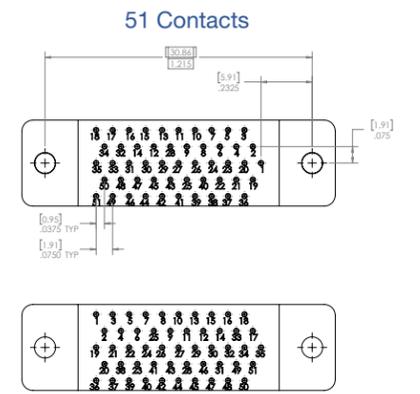
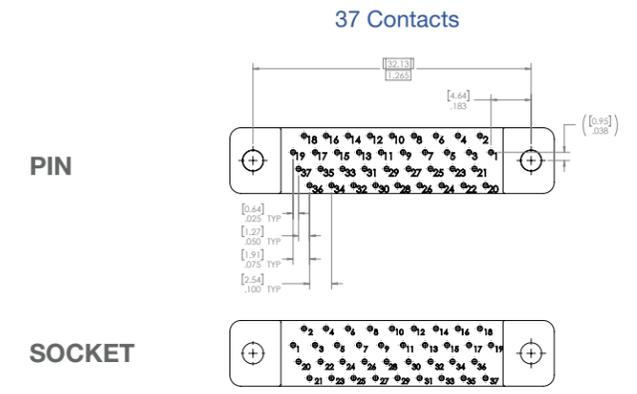
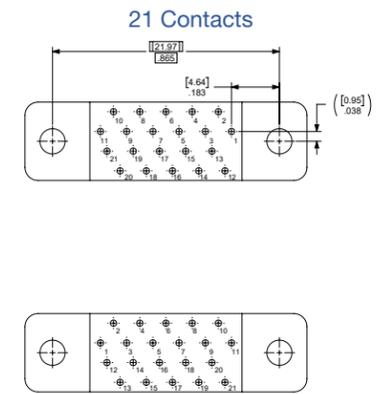
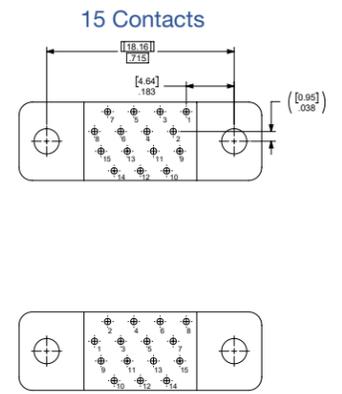
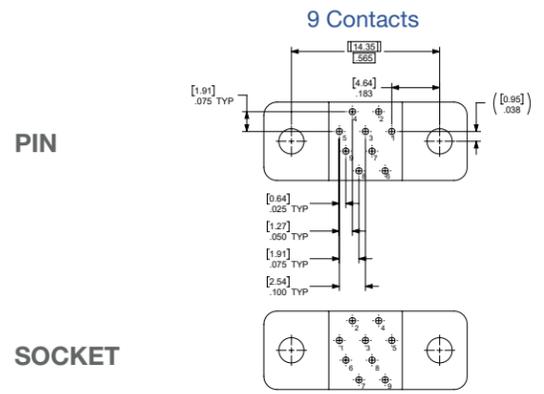
SIZE	A MAX	B ±0.005 (0.13)	D MAX		D MAX		E MAX		F MAX
			PLUG	RCPT	C6	H6	PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.400 (10.16)					
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.550 (13.97)					
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.700 (17.78)	.310 (7.87)	.310 (7.87)	.185 (4.70)	.251 (6.38)	.355 (9.02)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.800 (20.32)					
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.950 (24.13)					
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.100 (27.94)					
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.050 (26.67)	.400 (10.16)	.351 (8.92)	.228 (5.79)	.296 (7.52)	
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.355 (34.42)					
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.13)	1.451 (36.86)					

Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	D MAX		D MAX		E MAX		F MAX	G MAX
			PLUG	RCPT	C16	H16	PLUG	RCPT		
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.400 (10.16)						.395 (10.03)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.550 (13.97)						.545 (13.84)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.700 (17.78)	.310 (7.87)	.310 (7.87)	.185 (4.70)	.251 (6.38)	.355 (9.02)	
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.800 (20.32)						
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.950 (24.13)						
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.100 (27.94)						
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.050 (26.67)	.351 (8.92)	.351 (8.92)	.228 (5.79)	.296 (7.52)		1.095 (27.81)
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.355 (34.42)						
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.15)	1.451 (36.86)						

C6 | C16 TERMINATION
BOARD STRAIGHT
CONNECTOR

 Mating Face — Mil. Spec. standard spacing



*Cavity identification numbers are for reference only and does not appear on the connector.

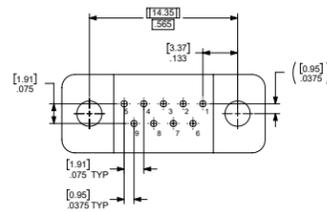
*Cavity identification numbers are for reference only and does not appear on the connector.

H6 | H16 TERMINATION
BOARD STRAIGHT
CONNECTOR

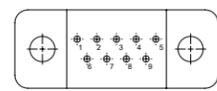


9 Contacts

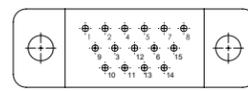
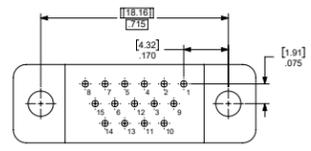
PIN



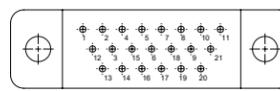
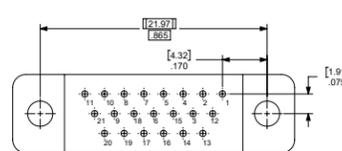
SOCKET



15 Contacts

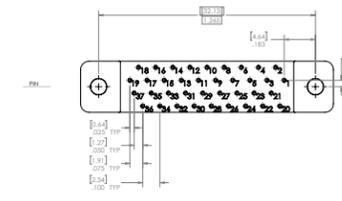


21 Contacts



37 Contacts

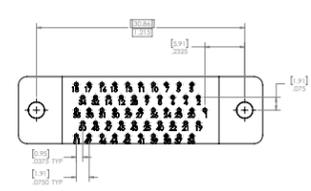
PIN



SOCKET

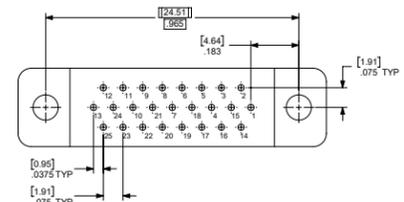


51 Contacts

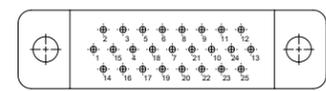


25 Contacts

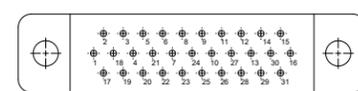
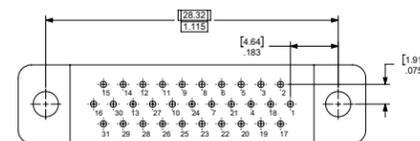
PIN



SOCKET

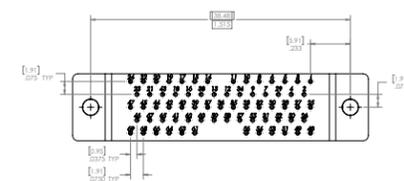


31 Contacts

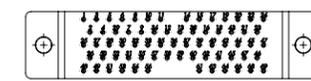


69 Contacts

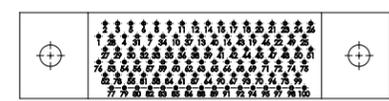
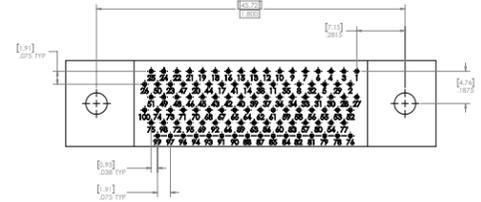
PIN



SOCKET

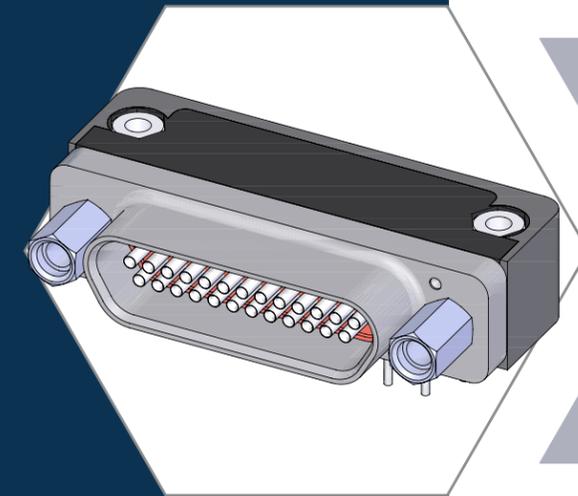


100 Contacts



*Cavity identification numbers are for reference only and does not appear on the connector.

*Cavity identification numbers are for reference only and does not appear on the connector.



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

REVERSED STANDARD PROFILE

110 SERIES

Introducing the Amphenol Canada 110 Series Micro-D Connector, engineered with a reverse Standard profile design for precise polarization reversal. Crafted with a durable metal shell, it ensures reliability in compact spaces.

Featuring solid copper 24 AWG PCB leads, tin plated, and solder dipped, it delivers optimal connectivity performance.

FEATURES

PCB CONNECTORS

- Polarization is reversed from a standard series 100 CBR type connector.
- Only available in metal shell
- Solid copper 24 AWG PCB leads, tin plated, and solder dipped.

SPECIFICATIONS

Shell	Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Finish	Metal	» Anodized (Black) » Zinc Nickel (Black Chromate) » Cadmium (Yellow Chromate) » Olive Drab Cadmium » Chem Film » Electroless Nickel » Gold » Zinc Nickel - 48 hrs » Pure Electro-Deposited Al » Nickel fluorocarbon polymer
Insulator / PCB Backshell		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel	
	Spacing	0.050" (1.27mm) centers	
	Quantity	9 15 21 25 31 37 51 69 100	
Hardware		Stainless steel, passivated	
Potting Material	Standard	EP1730-1 or equivalent;	
	High Temp	EP173859 or equivalent	
Coupling		Friction or Jackscrews into jackposts/threaded Inserts	

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11		
E	110	R	N	25	P	-	CBR	P	T	F	-	125

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

110	Reversed CBR Type per M83513
114	Reversed CBR Type per M83513 (Passivated Stainless Steel)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 114 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer (PTFE) / Durmalon

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69†	

† Non-military spec. (I.A.W M83513)

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with Ground Spring

Termination Type Other Types Available 7

CBR	Narrow Right Angle PCB Per M83513 /10 - /15
-----	---

Hardware — Pre-installed by factory Metric Codes Available 8

JACKPOSTS		
P	Standard Jackpost	
REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027"-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

Hardware — Pre-installed by factory Metric Codes Available Continued 8

MOUNTING HOLE	
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

Threaded Insert* 9

	Omit for no threaded Insert
T	#2-56 Threaded Insert (Size 9-69)
U	#4-40 Threaded Insert (Size 100 Only)
V	M2 Threaded Insert (Size 9-69)
Z	M3 Threaded Insert (Size 100 Only)

* Pre-installed PCB mounting options

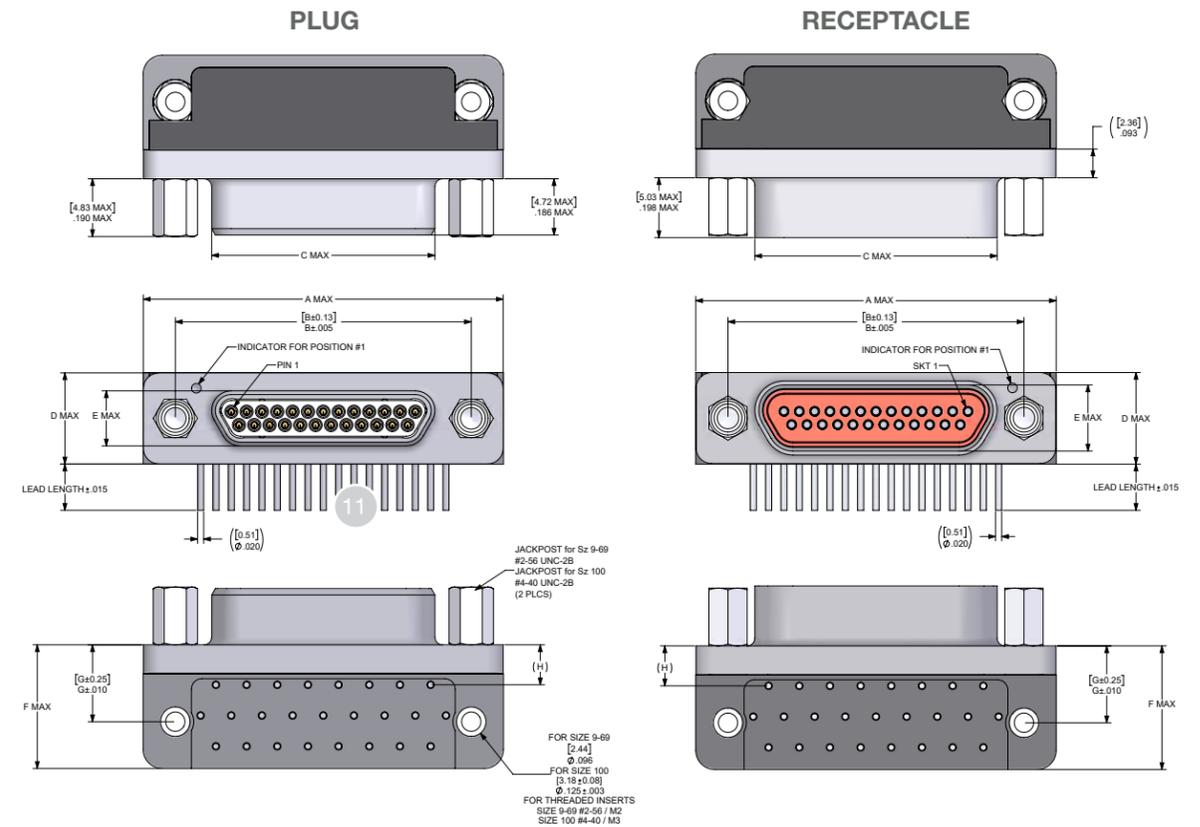
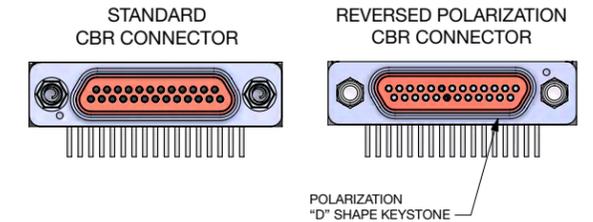
Lead Length – Dimensions in inches 10

1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code Dimensions in inches 11

Stranded Wire	1 = 1.00" 100 = 100.00"
---------------	----------------------------

REVERSED CBR TERMINATION BOARD RIGHT ANGLE CONNECTOR NARROW PROFILE

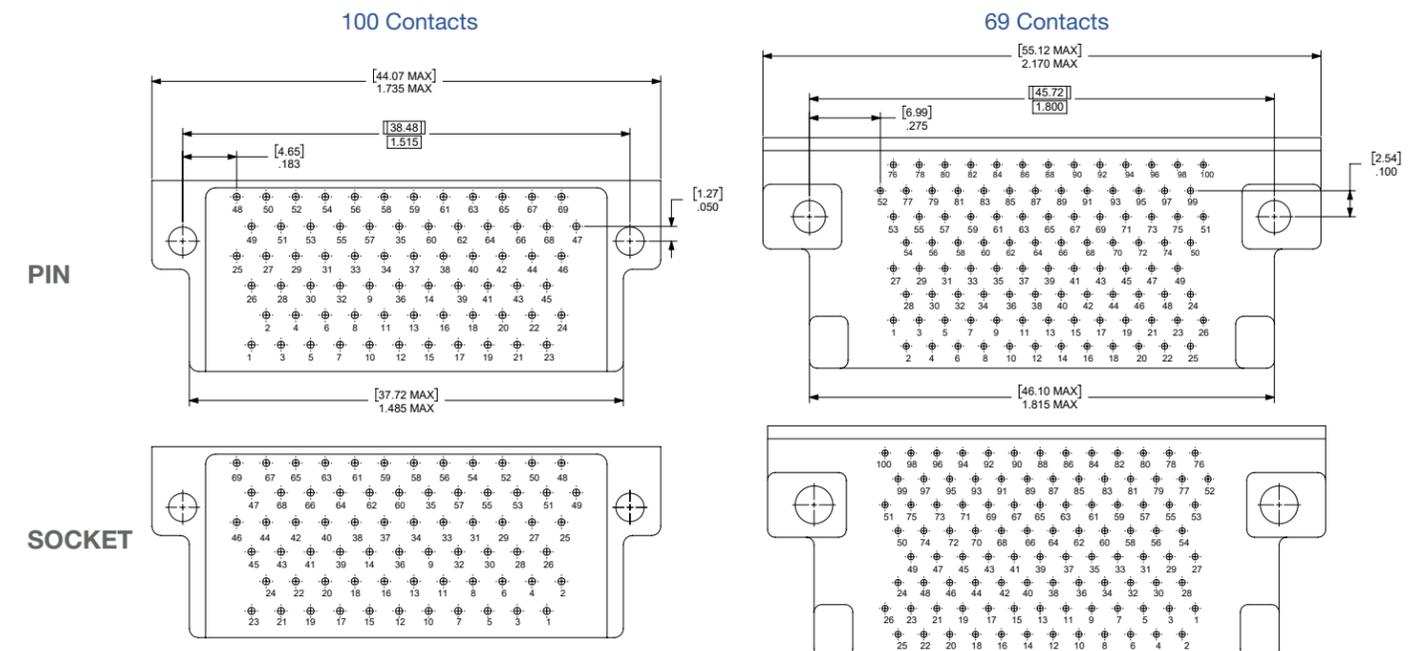
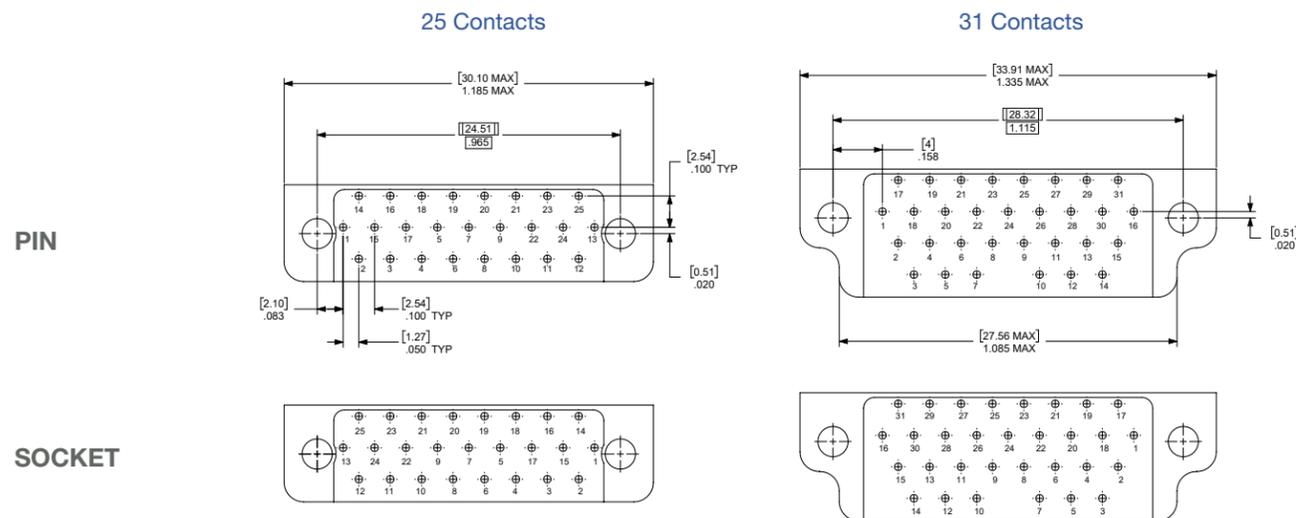
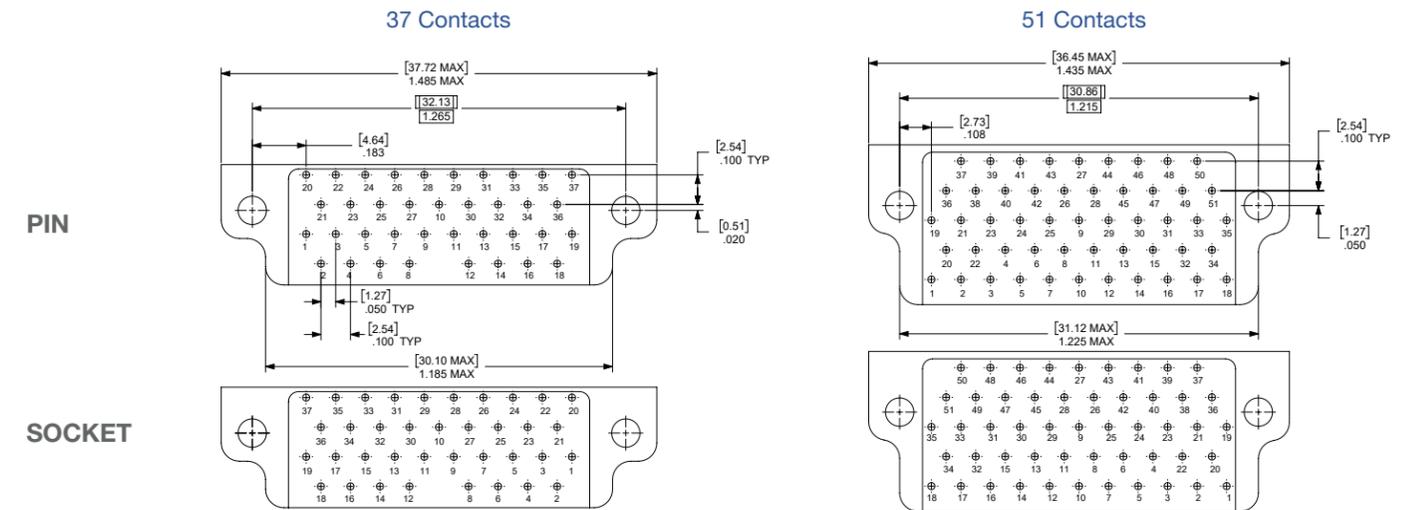
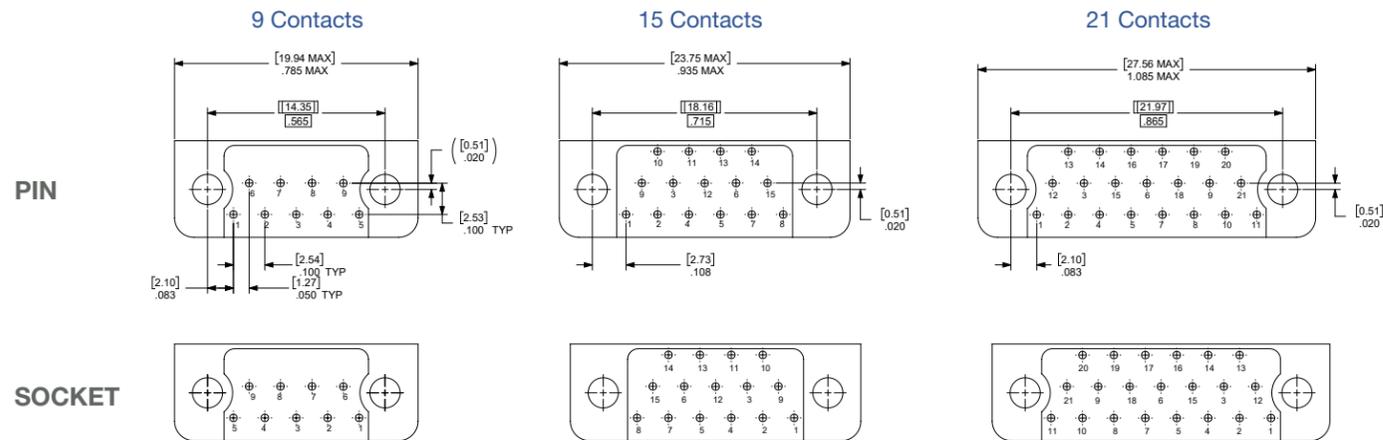


Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C MAX		D MAX	E MAX		F MAX	G ±0.010 (0.25)	H ±0.010 (0.25)
			PLUG	RCPT		PLUG	RCPT			
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)						.230 (5.84)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)						
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.308 (7.82)	.185 (4.70)	.253 (6.43)		.250 (6.35)	.130 (3.30)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)						
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)						
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.22)	1.102 (27.99)						
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)						
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.357 (34.47)				.650 (16.15)	.300 (7.62)	.150 (3.81)
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.15)	1.452 (36.88)	.394 (10.01)	.271 (6.88)	.394 (10.01)	1.000 (25.40)	.400 (10.16)	.200 (5.08)

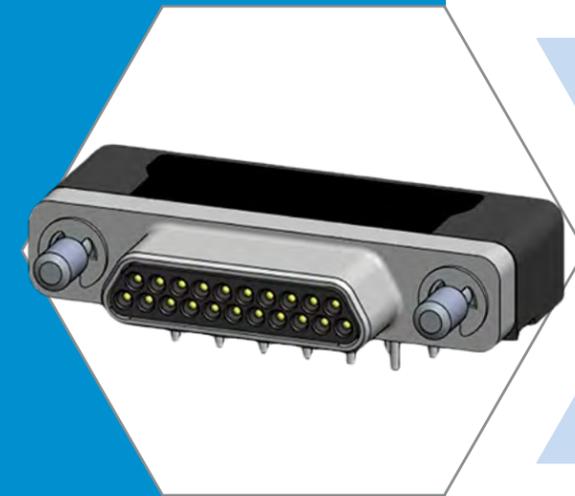
REVERSED CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



*Cavity identification numbers are for reference only and does not appear on the connector.

*Cavity identification numbers are for reference only and does not appear on the connector.



**Standard
Micro-D**

Environmental &
Material Options

Mechanical &
Locking Types

Board-Level
Solutions

Filtered &
EMI Solutions

Accessories

LOW PROFILE 108 SERIES

The 108 Series Micro-D Connectors are a remarkable space-saving solution offering RFI/EMI shielding and pre-wiring. While keeping the same dimensions as plastic standards, it offers more flexibility with its lower flange height.

FEATURES

- Metal shells to provide RFI/EMI shielding
- Ideal for tight spaces
- Intermateable with 101R and 108R only

HARNESSED CONNECTORS

- Reduced flange height in comparison with standard 100 Series connectors
- Pre-wired and fully potted

PCB CONNECTORS

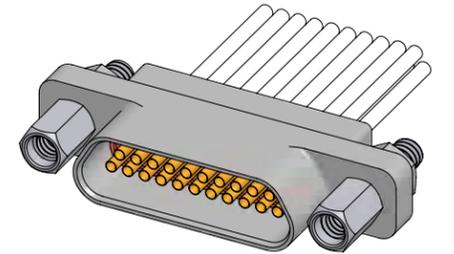
- Reduced flange height in comparison with standard 100 Series CBR connectors
- Solid copper 24 AWG PCB leads tin plated, and solder dipped
- Meets performance requirements of MIL-DTL-83513

SPECIFICATIONS

Shell	Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Finish	Metal	» Anodized (Black) » Zinc Nickel (Black Chromate) » Cadmium (Yellow Chromate) » Olive Drab Cadmium » Chem Film
			» Electroless Nickel » Gold » Zinc Nickel - 48 hrs » Pure Electro-Deposited Al » Nickel fluorocarbon polymer
Insulator / PCB Backshell		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel	
	Spacing	0.050" (1.27mm) centers	
	Quantity	9 15 21 25 31 37 51	
Hardware		Stainless steel, passivated	
Potting Material	Standard	EP1730-1 or equivalent	
	High Temp	EP173859 or equivalent	
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33	
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)	
Coupling		Friction or Jackscrews into jackposts/threaded Inserts	

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11	12
E	108	R	N	15	P	3	E	6	F	M2	20



RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

108	Low Profile Metal Shell
148	Low Profile Shell (Passivated Stainless Steel)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
----------	-------------------------------

Shell Finish 4

	Omit for 148 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69[▲]	

[▲] Non-military spec. (I.A.W M83513)

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with Ground Spring

Wire Size (AWG) 7

1	32	4*	26 (M83513)
2	30	5†	25
3	28	6	24

SOLDER CUP

Omit for Standard Solder Cup	7	Special 24 AWG
------------------------------	----------	----------------

^{*} M83513 Standard
[†] Solid Wire Only

Wire Type 8

	Omit for Standard Solder Cup
GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 9

	Omit for Solder Cup
1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1st 10 Colors black thru white, repeated (M83513 STD) Off shelf
7	1st 15 colors black thru white/Yellow Repeated (Size 21+ Only)
8	Twisted Pairs, White/Blue
9	Twisted Pairs, White/Blue, Marked

Wire Length – Dimensions in inches 10

	Omit for Standard Solder Cup
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory 11

Metric Codes Available

JACKSCREWS

M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

Hardware — Pre-installed by factory 11

Metric Codes Available

Continued

JACKPOSTS

P	Standard Jackpost
----------	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

MOUNTING HOLE

B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

FLOAT MOUNT

F	Forward Float Mount
R	Reverse Float Mount

Non-Standard Length Code 12

Pre-installed by factory

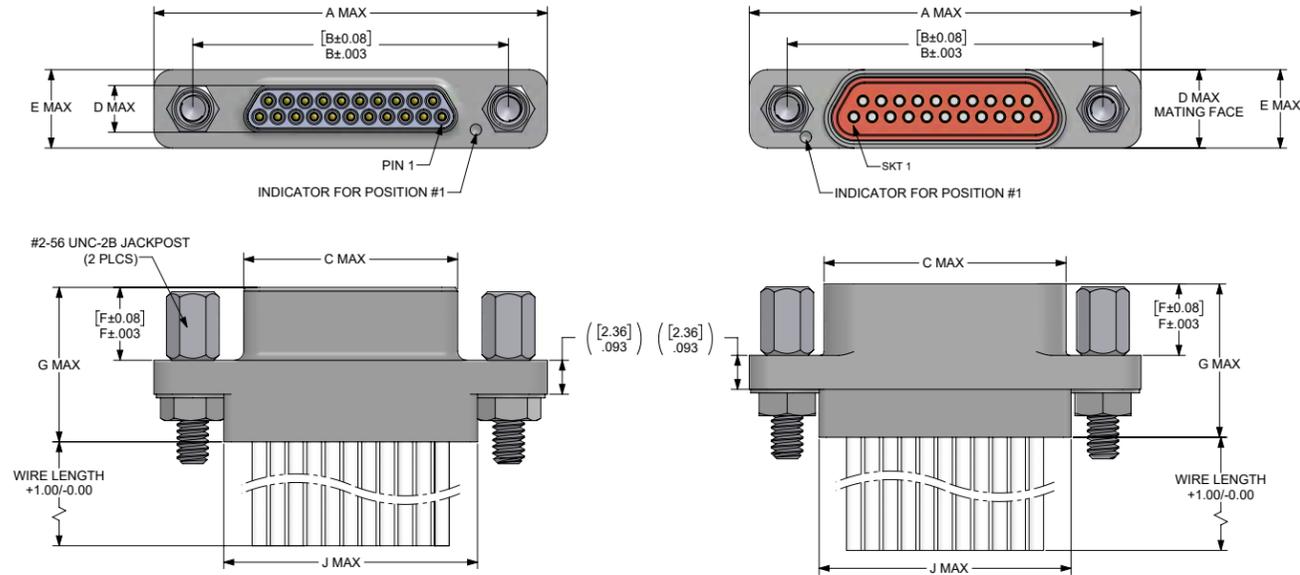
Stranded Wire	1 = 1.00" 100 = 100.00"
---------------	----------------------------

FOR MORE INFORMATION

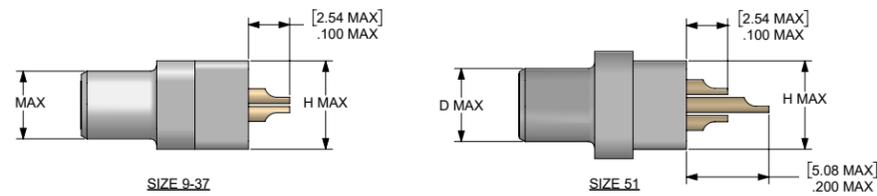
GENERAL INQUIRIES
✉ sales@amphenolcanada.com
☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

CRIMP/WIRE TERMINATION



SOLDER CUP TERMINATION PLUG/RECEPTACLE



Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	C MAX		D MAX		E MAX	F MAX		G MAX		H MAX	J MAX
			PLUG	RCPT	PLUG	RCPT		PLUG	RCPT	PLUG	RCPT		
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)								.405 (10.29)	
15	.938 (23.83)	.715 (18.16)	.442 (11.23)	.530 (13.46)								.555 (14.10)	
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)	.134 (3.40)	.218 (5.54)	.218 (5.54)					.705 (17.91)	
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)				.199 (5.05)	.180 (4.57)	.390 (9.91)	.377 (9.58)	.805 (20.45)	
31	1.338 (33.99)	1.115 (28.32)	.842 (21.39)	.930 (23.62)								.955 (24.26)	
37	1.488 (37.80)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)								1.105 (28.07)	
51	1.438 (36.53)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.177 (4.50)	.260 (6.60)	.260 (6.60)					.220 (5.59)	1.058 (26.87)

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Termination Type	Hardware	Threaded Insert	Lead Length	Non-Standard Length Code
1 E	2 108	3 R	4 N	5 25	6 P	7 CBR	8 P	9 T	10 F	11 125

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

108	Low Profile Metal Shell
118	Reversed Low Profile Metal Shell
148	Low Profile Metal Shell (Passivated Stainless Steel)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 148 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51
15	25	37	

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

Termination Type 7
Other Types Available

CBR	Narrow Right Angle
-----	--------------------

Hardware — Pre-installed by factory 8
Metric Codes Available

JACKPOSTS

P	Standard Jackpost
---	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 - .037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

Hardware — Pre-installed by factory 8
Metric Codes Available

MOUNTING HOLE

H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

Threaded Insert 9

	Omit for no threaded Insert
T	#2-56 Threaded Insert (Size 9-69)
V	M2 Threaded Insert (Size 9-69)

*Pre-installed PCB mounting options

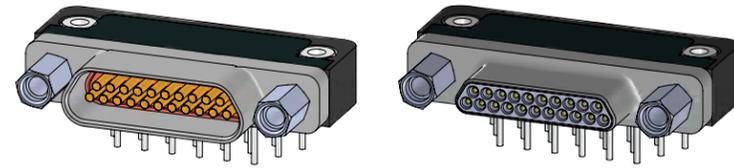
Lead Length — Dimensions in inches 10

1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code 11
Dimensions in inches

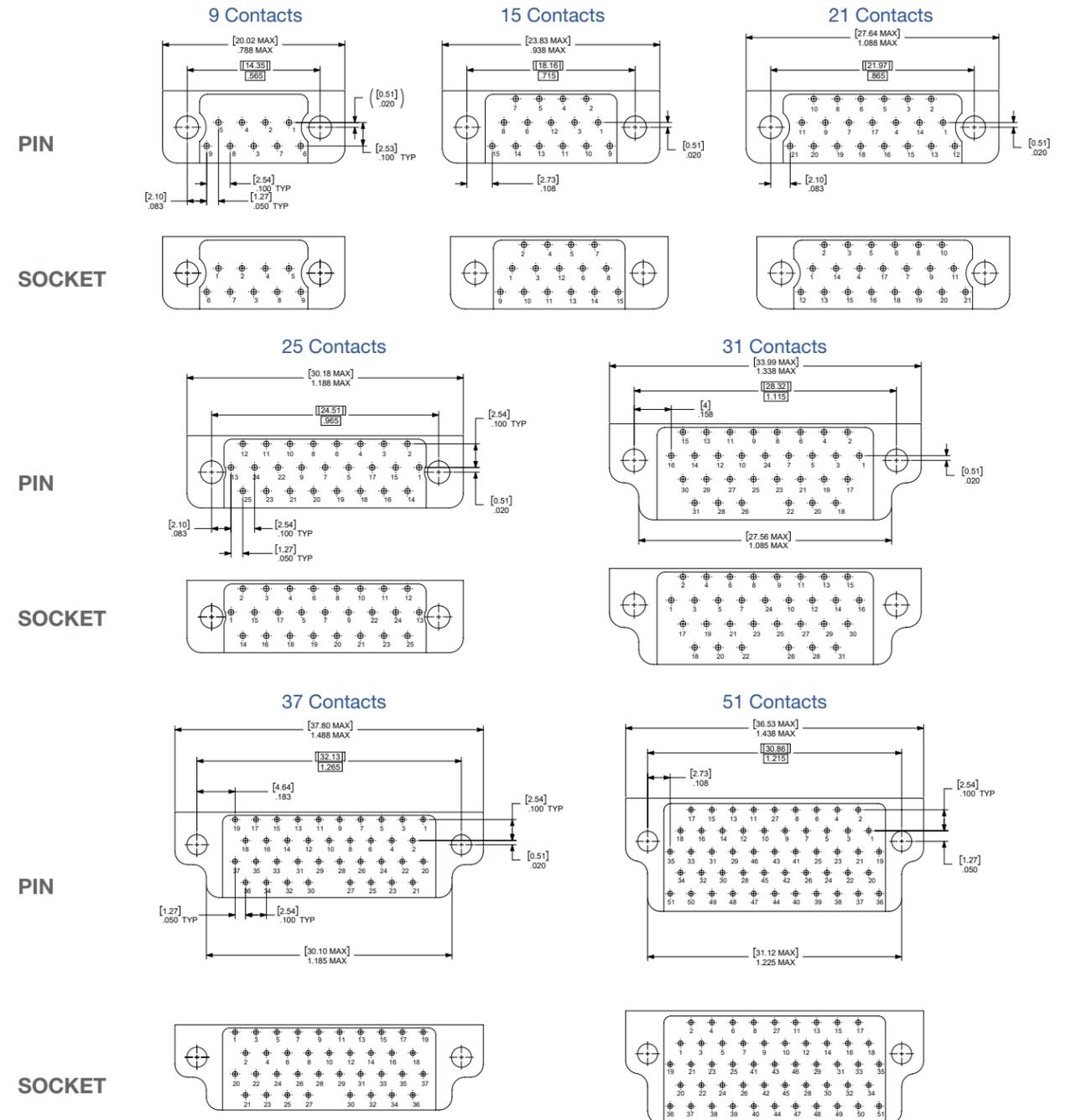
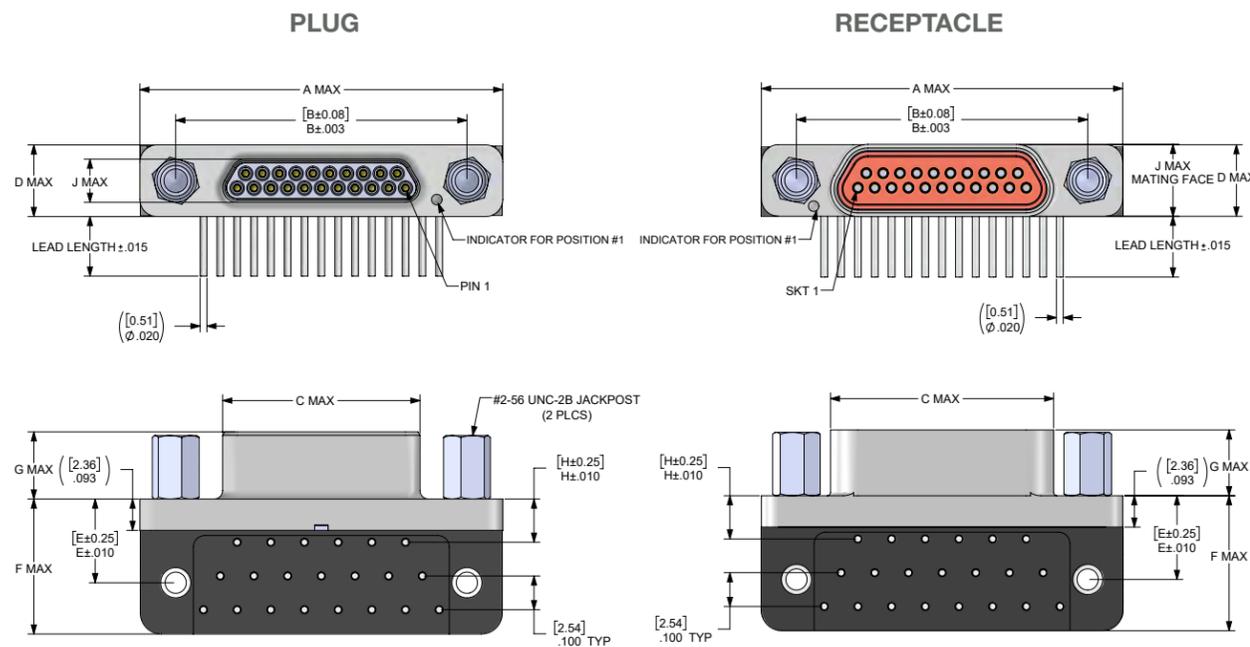
Stranded Wire	1 = 1.00" 100 = 100.00"
---------------	----------------------------

CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
LOW PROFILE



CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
LOW PROFILE

0.100 [2.54] x 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27] – Mil. Spec. standard spacing

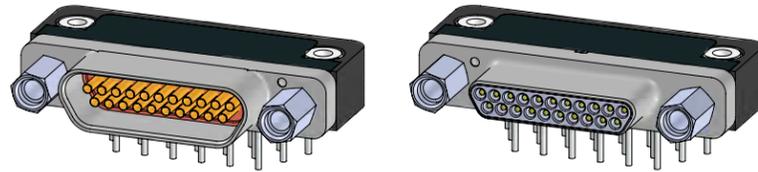


Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	C MAX		D MAX	E MAX	F MAX	G MAX		H MAX	J MAX	
			PLUG	RCPT				PLUG	RCPT		PLUG	RCPT
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)					.230 (5.84)			
15	.938 (23.83)	.715 (18.16)	.442 (11.23)	.530 (13.46)	.218 (5.54)	.250 (6.35)	.425 (10.80)	.202 (5.13)	.185 (4.70)	.130 (3.30)	.134 (3.40)	.218 (5.54)
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)								
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)								
31	1.338 (33.99)	1.115 (28.32)	.842 (21.39)	.930 (23.62)								
37	1.488 (37.80)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)			.525 (13.34)					
51	1.438 (36.53)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.260 (6.60)	.300 (7.62)	.660 (16.76)			.150 (3.81)	.177 (4.50)	.260 (6.60)

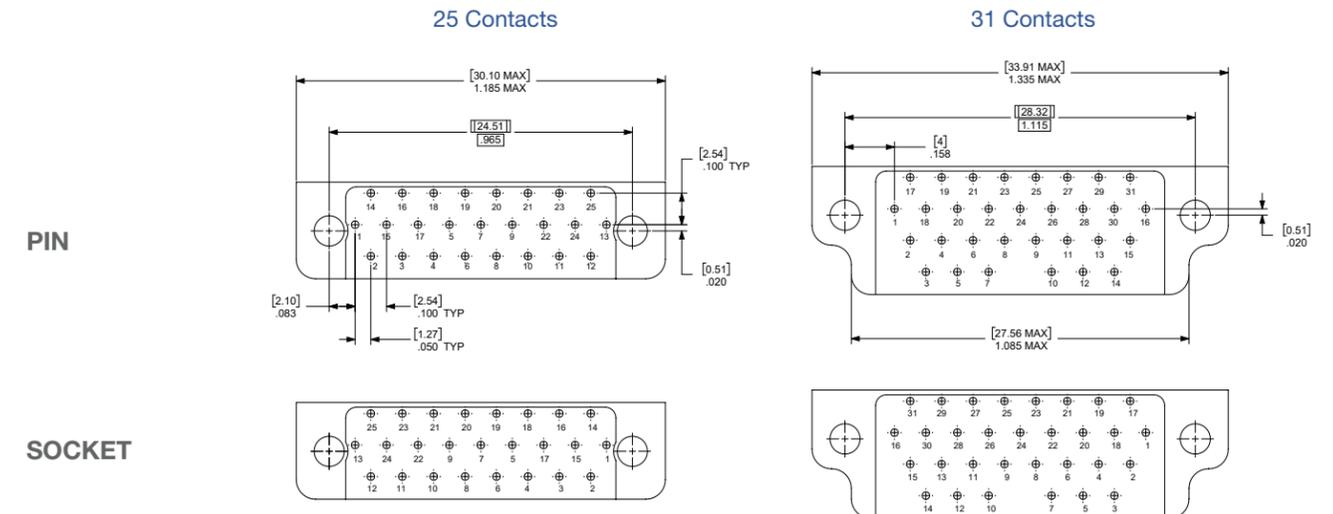
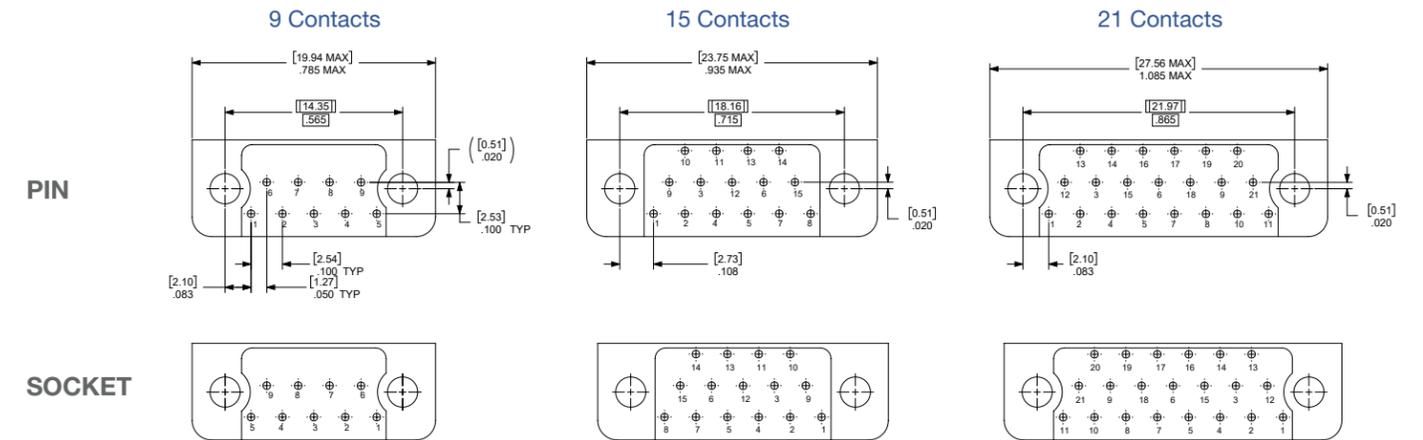
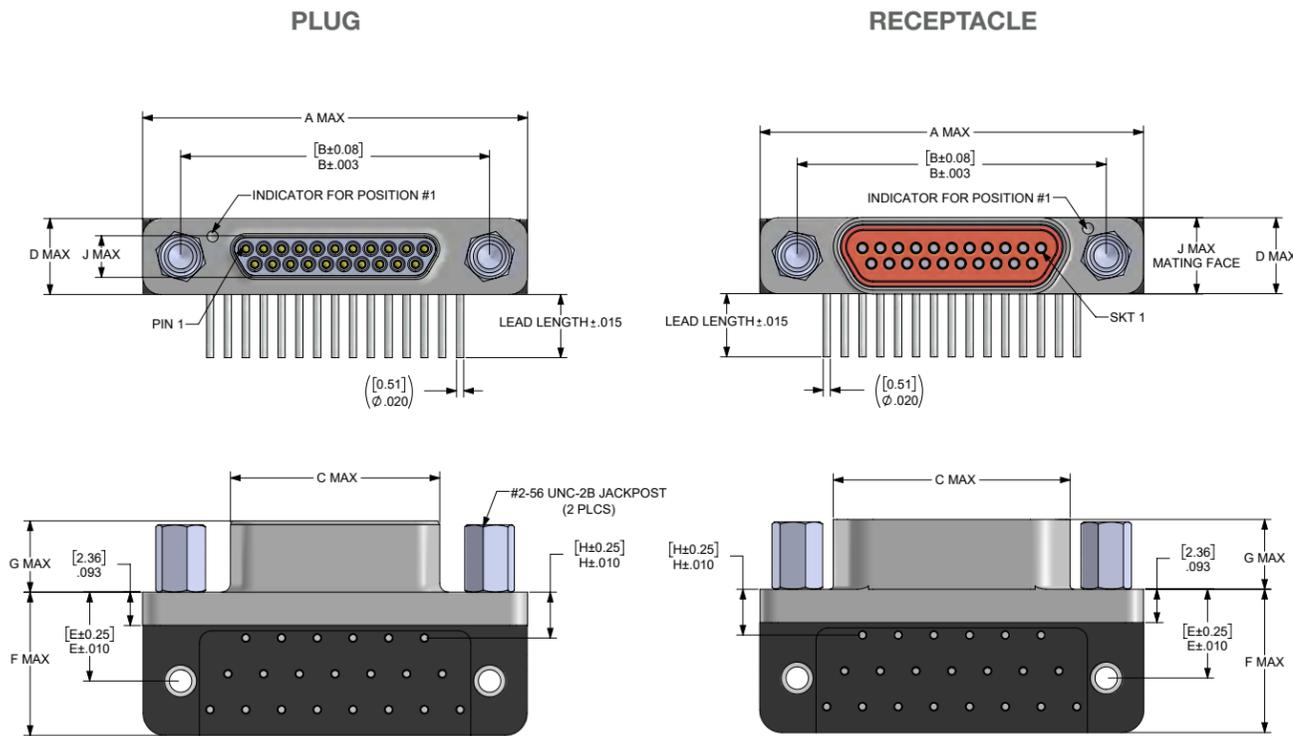
*Cavity identification numbers are for reference only and does not appear on the connector.

REVERSED CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
LOW PROFILE



REVERSED CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
LOW PROFILE

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



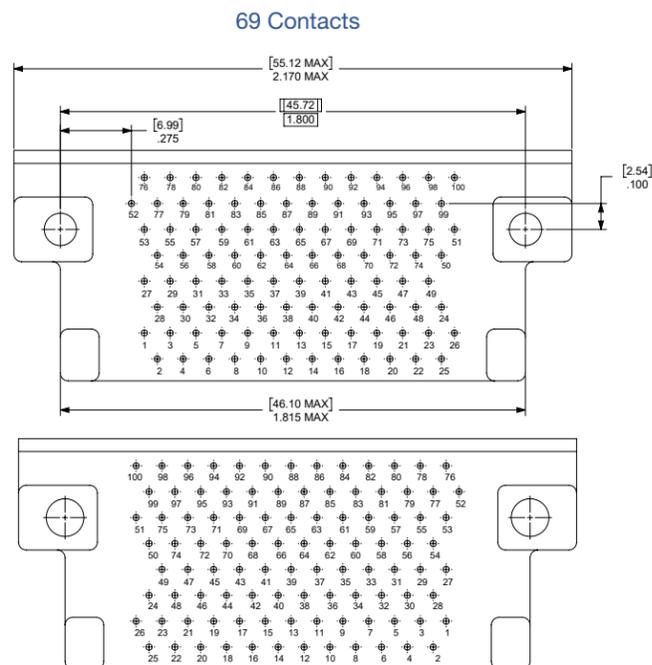
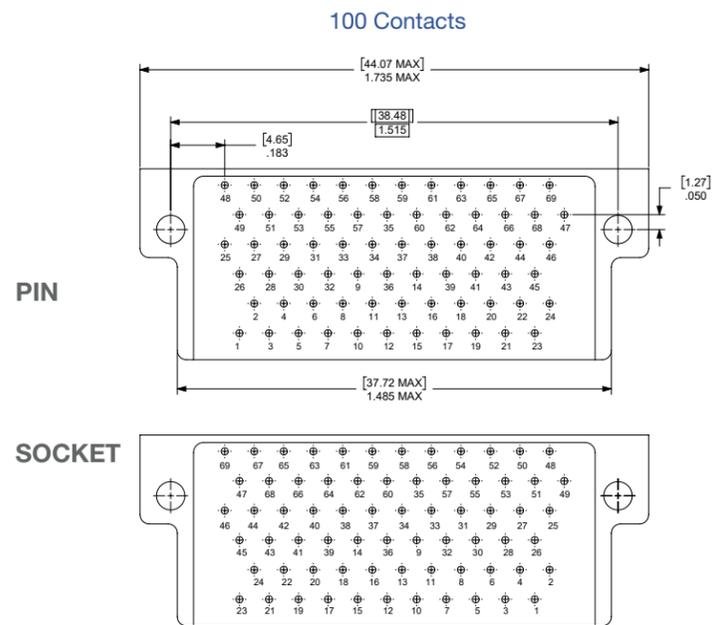
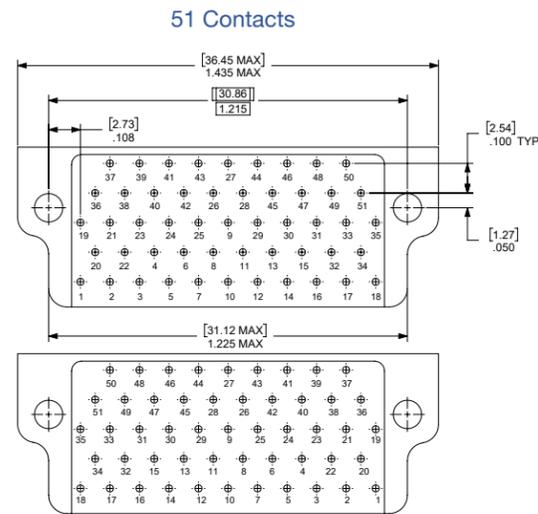
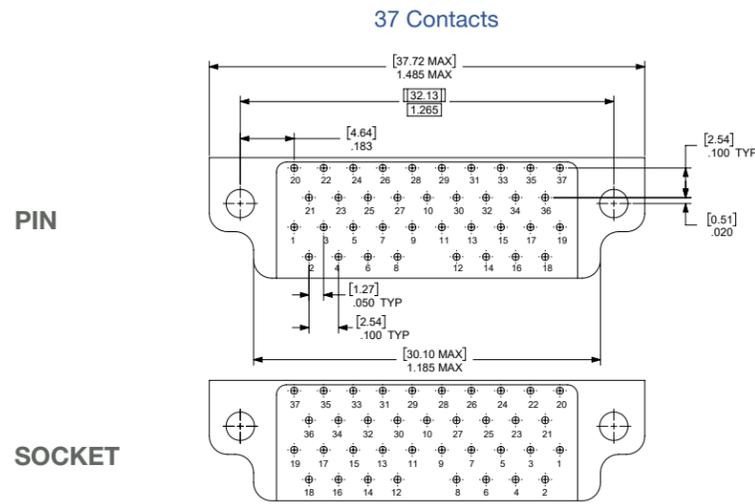
Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	C MAX		D MAX	E MAX	F MAX	G MAX		H MAX	J MAX	
			PLUG	RCPT				PLUG	RCPT		PLUG	RCPT
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)					.230 (5.84)			
15	.938 (23.83)	.715 (18.16)	.442 (11.23)	.530 (13.46)			.425 (10.80)					
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)	.218 (5.54)	.250 (6.35)		.202 (5.13)	.185 (4.70)	.130 (3.30)	.134 (3.40)	.218 (5.54)
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)								
31	1.338 (33.99)	1.115 (28.32)	.842 (21.39)	.930 (23.62)			.525 (13.34)					
37	1.488 (37.80)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)								
51	1.438 (36.53)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.260 (6.60)	.300 (7.62)	.660 (16.76)			.150 (3.81)	.177 (4.50)	.260 (6.60)

*Cavity identification numbers are for reference only and does not appear on the connector.

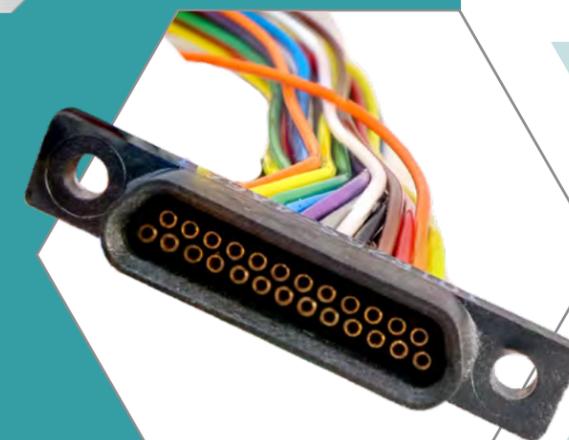
REVERSED CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
LOW PROFILE

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]



*Cavity identification numbers are for reference only and does not appear on the connector.

MIL-DTL-83513
QUALIFIED SUPPLIER



PLASTIC LOW PROFILE 101 SERIES

SPECIFICATIONS

Body		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent
	Material	Copper alloy, 50 micro-inches gold plate over nickel
Contacts	Spacing	0.050" (1.27mm) centers
	Quantity	9 15 21 25 31 37 51
Hardware		Stainless steel, passivated
Potting Material	Standard	EP1730-1 or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling		Friction or Jackscrews into jackposts/threaded Inserts

Amphenol CANADA
MILITARY & AEROSPACE

Standard
Micro-D

**Environmental &
Material Options**

Mechanical &
Locking Types

Board-Level
Solutions

Filtered &
EMI Solutions

Accessories

Discover the Amphenol Canada 101 Series Micro-D Connector, engineered for tight spaces. Featuring a high-performance thermoplastic shell and a low-profile design, it ensures durability and space efficiency.

FEATURES

- Ideal for tight spaces
- High-performance thermoplastic shell resistance to aggressive chemical environments
- Stable dielectric and insulating properties

HARNESSED CONNECTORS

- Reduced flange height in comparison with standard 100 series connectors
- Pre-wired and fully potted

PCB CONNECTORS

- Reduced flange height in comparison with standard 100 series PCB connectors
- Available in straight and right angle termination style
- Solid copper 24 AWG PCB leads, Tin plated, and solder dipped

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11
E	101	R	25	P	4	A	5	F	P	48

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

101	Low Profile All Plastic Shell per M83513
-----	--

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Connector Size (Number of contacts) 4

09	21	31	51
15	25	37	

Connector Type 5

P	Plug
S*	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

* Interfacial seal not include

Wire Size (AWG) 6

1	32	4*	26 (M83513)
2	30	5†	25
3	28	6	24
SOLDER CUP			
	Omit for Standard Solder Cup	7	Special 24 AWG

* M83513 Standard
† Solid Wire Only

Wire Type 7

	Omit for Standard Solder Cup
GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 8

	Omit for Standard Solder Cup
1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf
7	1 st 15 colors black thru white/Yellow Repeated (Size 21+ Only)
8	Twisted Pairs, White/Blue
9	Twisted Pairs, White/Blue, Marked

Wire Length – Dimensions in inches 9

	Omit for Standard Solder Cup
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	0.50 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory 10
Metric Codes Available

JACKPOSTS		
P	Standard Jackpost	
REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

Hardware — Pre-installed by factory 10
Metric Codes Available

MOUNTING HOLE	
B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)
FLOAT MOUNT	
F	Forward Float Mount
R	Reverse Float Mount
JACKSCREWS	
M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

Non-Standard Length Code 11
Dimensions in inches

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110=.110" 999=.999"

FOR MORE INFORMATION

GENERAL INQUIRIES
✉ sales@amphenolcanada.com
☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

M83513 QUALIFIED

SOLDER CUP TERMINATION

PART NUMBER KEY

Connector Series	Specification Sheet	Insert Arrangement
1 M83513	2 06	3 A

Connector Series	1 M83513 Micro-D MIL-DTL-83513 spec.
------------------	--------------------------------------

Specification Sheet	2 06 Plug (pin) 07 Receptacle (socket)
---------------------	---

Insert Arrangement	3 A 9 D 31 B 15 E 37 C 21 F 51
--------------------	--

CRIMP TERMINATION

PART NUMBER KEY

Connector Series	Specification Sheet	Insert Arrangement	Wire Type
1 M83513	2 08	3 F	4 01

Connector Series	1 M83513 Micro-D MIL-DTL-83513 spec.
------------------	--------------------------------------

Specification Sheet	2 08 Plug (pin) 09 Receptacle (socket)
---------------------	---

Insert Arrangement	3 A 9 D 31 B 15 E 37 C 21 F 51
--------------------	--

Wire Type	4 01 M22759/11-26-9, 18" 02 M22759/11-26-9, 36"
-----------	--

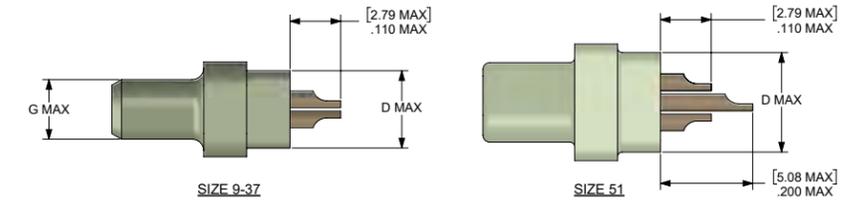
Wire Type	4 Continued
03	M22759/11-26-[], 18"
04	M22759/11-26-[], 36"
05	A-A-59551, Type S, 25 AWG, except shall be gold plated 10 micro-inches; 0.5"
06	A-A-59551, TYPE S, 25 AWG, except shall be gold plated 10 micro-inches; 1.0"
07	A-A-59551, TYPE S, 25 AWG, tin plated 100 micro-inches; 0.5"
08	A-A-59551, TYPE S, 25 AWG, tin plated 100 micro-inches; 1.0"
09	M22759/33-26-9, 18"
10	M22759/33-26-9, 36"
11	M22759/33-26-[], 18"
12	M22759/33-26-[], 36"
13	M22759/11-26-9, 72"
14	M22759/11-26-[], 72"

Wire Type	4 Continued
15	M22759/33-26-9, 72"
16	M22759/33-26[], 72"
17	04035-26A-9, 18"
18	04035-26A-9, 36"
19	04035-26A-9, 72"
20	04035-26A-[], 18"
21	04035-26A-[], 36"
22	04035-26A-[], 72"

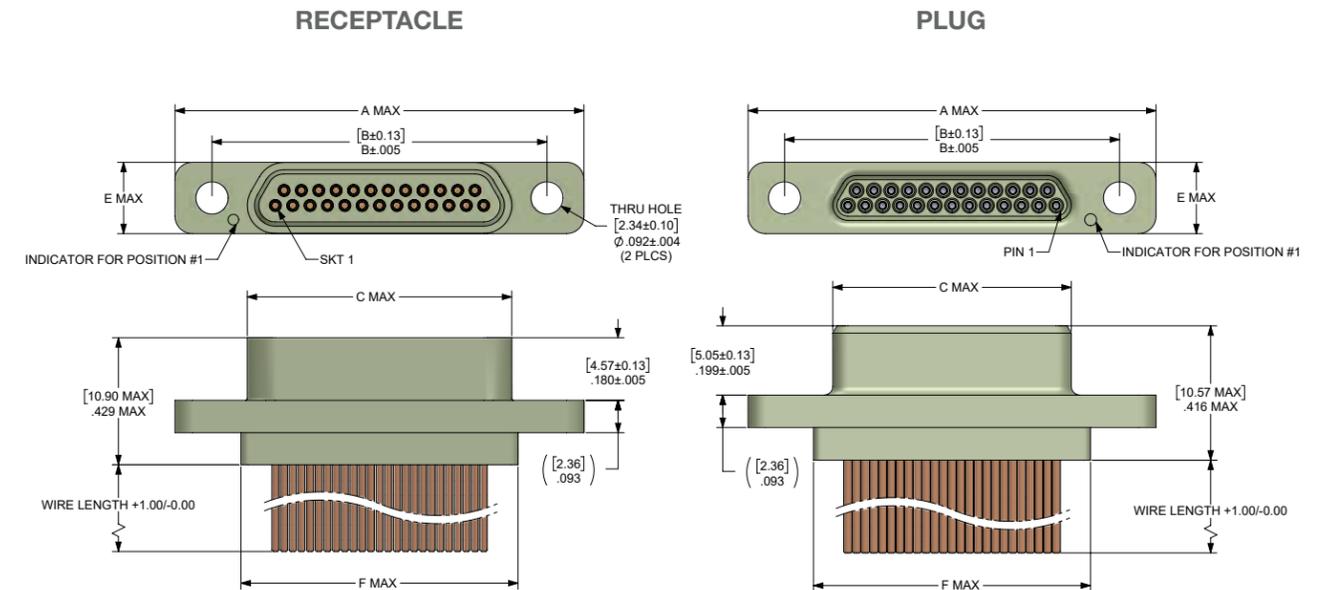
* All wire lengths (inches) +1.0"/-0.0"

Notes:
1 Mounting and mating hardware to be ordered separately per M83513

SOLDER CUP TERMINATION PLUG/RECEPTACLE M83513/06 & /07



CRIMP/WIRE TERMINATION M83513/08 & /09



Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	C MAX		D MAX	E MAX	F MAX	G MAX	
			PLUG	RECEPTACLE				PLUG	RECEPTACLE
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)			.408 (10.36)		
15	.938 (23.82)	.715 (18.16)	.442 (11.23)	.530 (13.46)			.558 (14.17)		
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)			.708 (17.98)		
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)	.173 (4.39)	.218 (5.54)	.808 (20.56)	.134 (3.40)	.218 (5.54)
31	1.338 (33.98)	1.115 (28.32)	.842 (21.39)	.930 (23.62)			.958 (24.33)		
37	1.488 (37.80)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)			1.108 (28.14)		
51	1.438 (36.52)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.220 (5.59)	.260 (6.60)	1.058 (26.87)	.177 (4.49)	.260 (6.60)

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10
E	101	R	25	P	BR	P	T	F	125

RoHS Compliance 1

E RoHS Compliant
Blank for Non-RoHS

Series 2

101 Low Profile All Plastic Shell per M83513

Insulator Material 3

R Polyphenylene Sulfide (Ryton)

Connector Size (Number of contacts) 4

09	21	31	51
15	25	37	

Connector Type 5

P Plug
S* Receptacle
R Receptacle with Faceseal Excluded
G Plug with Ground Spring

* Interfacial seal not include

Termination Type 6
Other Types Available

CBR Narrow Right Angle PCB Per M83513 /10 - /15
BR Right angle PCB Per M83513 /16 - /21
BS Straight PCB Per M83513 /22 - /27

Hardware — Pre-installed by factory 7
Metric Codes Available

Omit for no threaded Insert

MOUNTING HOLE

H Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

JACKPOSTS

P Standard Jackpost

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 - .037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

Threaded Insert 8

Omit for no threaded Insert

T #2-56 Threaded Insert
V M2 Threaded Insert

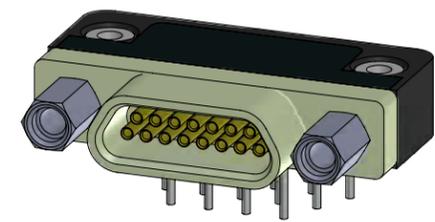
* Pre-installed PCB mounting options

Lead Length – Dimensions in inches 9

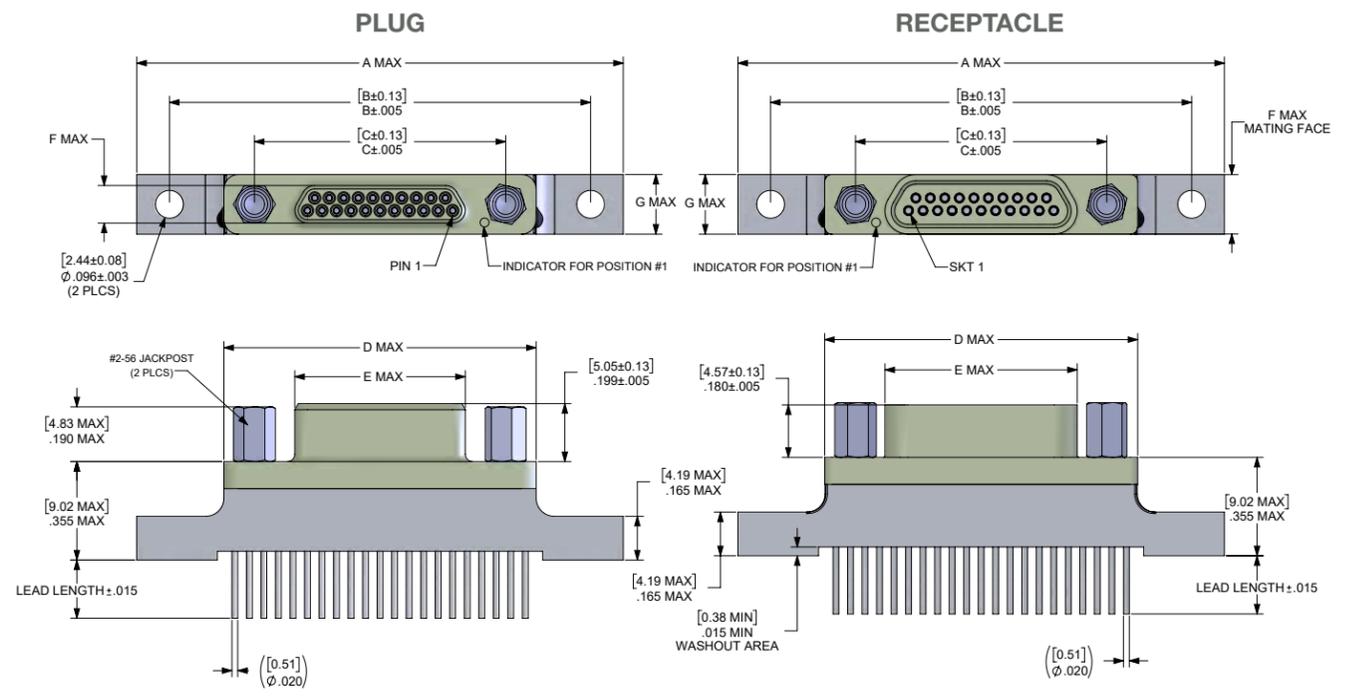
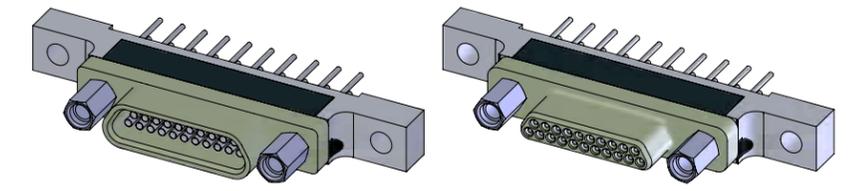
1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code 10
Dimensions in inches

Stranded Wire 1 = 1.00"
 100 = 100.00"



BS TERMINATION BOARD STRAIGHT CONNECTOR

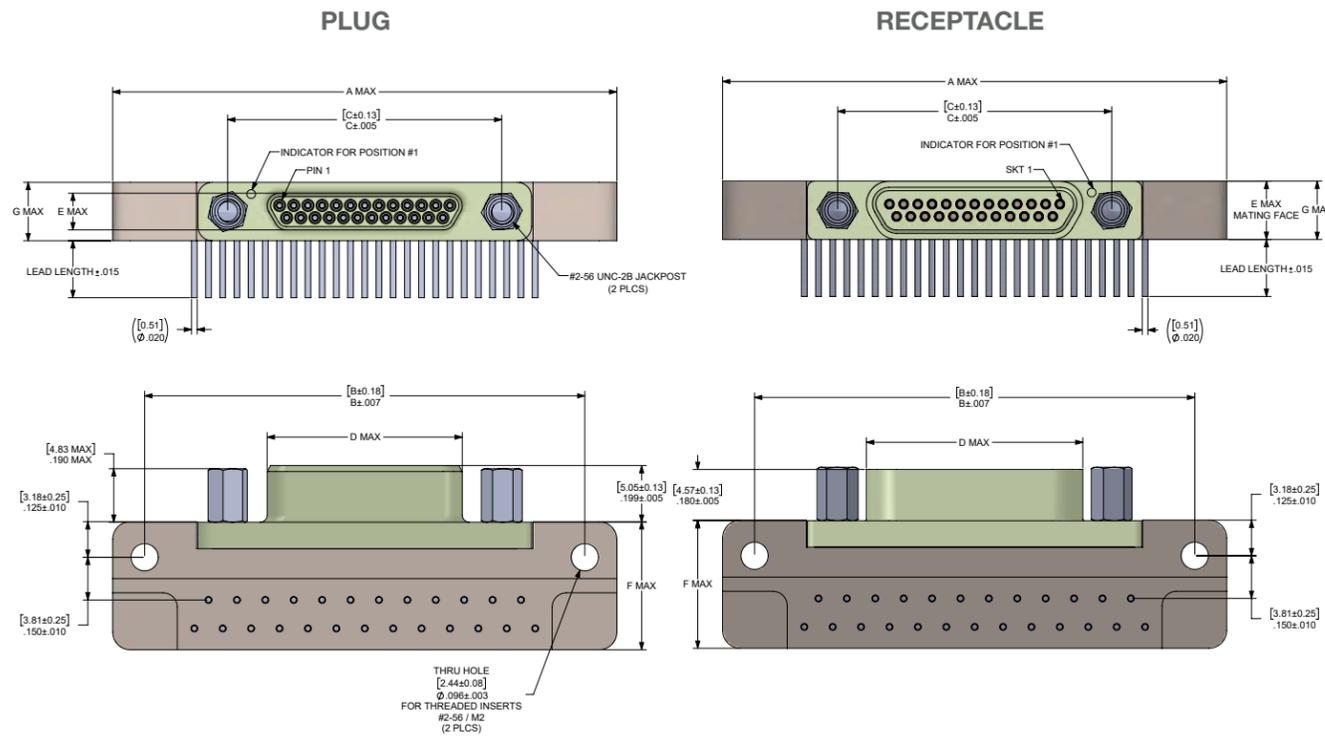
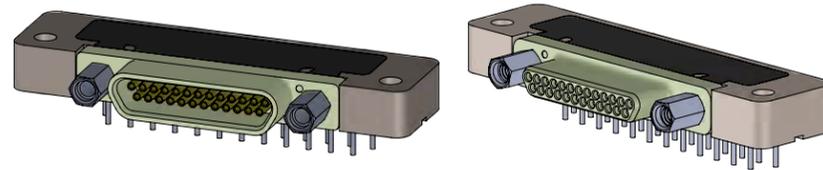


Dimensions are in inch (mm)

SIZE	A MAX	±0.005 (0.13)	±0.005 (0.13)	D MAX	E MAX		F MAX		G MAX
					PLUG	RCPT	PLUG	RCPT	
09	1.390 (35.31)	1.150 (29.21)	.565 (14.35)	.788 (20.02)	.292 (7.42)	.380 (9.65)			
15	1.390 (35.31)	1.150 (29.21)	.715 (18.16)	.938 (23.83)	.442 (11.23)	.530 (13.46)			
21	1.690 (42.93)	1.450 (36.83)	.865 (21.97)	1.088 (27.64)	.592 (15.04)	.680 (17.27)	.134 (3.40)	.218 (5.54)	.218 (5.54)
25	1.740 (44.20)	1.500 (38.10)	.965 (24.51)	1.188 (30.18)	.692 (17.58)	.780 (19.81)			
31	2.040 (51.82)	1.800 (45.72)	1.115 (28.32)	1.338 (33.99)	.842 (21.39)	.930 (23.62)			
37	2.340 (59.44)	2.100 (53.34)	1.265 (32.13)	1.488 (37.80)	.992 (25.20)	1.080 (27.43)			
51	2.270 (67.66)	2.000 (50.80)	1.215 (30.86)	1.438 (36.53)	.942 (23.93)	1.030 (26.16)			

Refer to page 30 for grid patterns

BR TERMINATION
BOARD RIGHT ANGLE
CONNECTOR

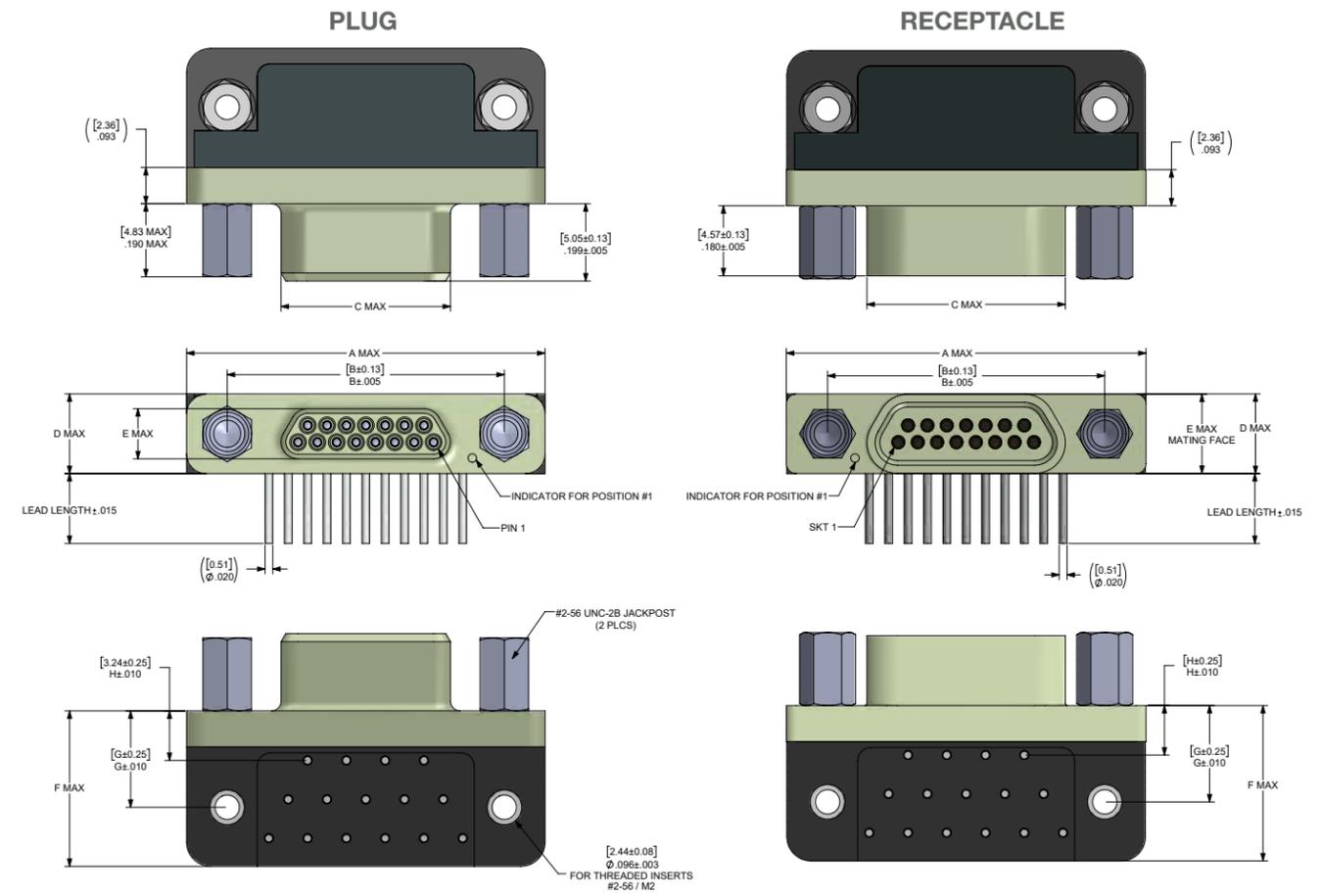


Dimensions are in inch (mm)

SIZE	A MAX	±0.007 (0.18)	±0.005 (0.13)	D MAX		E MAX		F MAX	G MAX
				PLUG	RCPT	PLUG	RCPT		
09	1.390 (35.31)	1.150 (29.21)	.565 (14.35)	.292 (7.42)	.380 (9.65)				
15	1.540 (39.12)	1.300 (33.02)	.715 (18.16)	.442 (11.23)	.530 (13.46)				
21	1.690 (42.93)	1.450 (36.83)	.865 (21.97)	.592 (15.04)	.680 (17.27)	.134 (3.40)	.218 (5.54)	.455 (11.56)	.218 (5.54)
25	1.790 (45.47)	1.550 (39.37)	.965 (24.51)	.692 (17.58)	.780 (19.81)				
31	2.040 (51.82)	1.800 (45.72)	1.115 (28.32)	.842 (21.39)	.930 (23.62)				
37	2.340 (59.44)	2.100 (53.34)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)				
51	1.875 (47.63)	1.600 (40.64)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.177 (4.49)	.260 (6.60)	.565 (14.35)	.260 (6.60)

Refer to page 27 for grid patterns

CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE



Dimensions are in inch (mm)

SIZE	A MAX	±0.005 (0.13)	C MAX		D MAX	E MAX		F MAX	G MAX	H MAX
			PLUG	RCPT		PLUG	RCPT			
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)						.230 (5.84)
15	.938 (23.83)	.715 (18.16)	.442 (11.23)	.530 (13.46)						
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)	.218 (5.54)	.134 (3.40)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.130 (3.30)
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)						
31	1.338 (33.98)	1.115 (28.32)	.842 (21.39)	.930 (23.62)				.520 (13.21)		
37	1.488 (37.80)	1.265 (32.13)	.992 (25.20)	1.080 (27.43)						
51	1.438 (36.52)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.260 (6.60)	.177 (4.49)	.260 (6.60)	.650 (16.51)	.300 (7.62)	.150 (3.81)

Refer to page 22 for grid patterns



Standard Micro-D

Environmental & Material Options

Mechanical & Locking Types

Board-Level Solutions

Filtered & EMI Solutions

Accessories

STRIPLINE MICRO-D 105 SERIES

The 105 Series “Stripline” Micro-D Connectors are engineered to meet military/aerospace standards (M83513), offering reliable connectivity with single or multiple rows, guide pin, and latching options.

FEATURES

HARNESSED CONNECTORS

- One piece Ryton insulator
- Copper alloy, gold plated contacts (1-30 positions)
- 300 series stainless steel guide pin (optional, one or both ends)
- Configurable for all single and multiple row arrangements
- Military/aerospace standard wiring interconnect using existing M83513 pin & socket standards

SPECIFICATIONS

Body		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent
	Material	Copper alloy, 50 micro-inches gold plate over nickel
Contacts	Spacing	0.050" (1.27mm) centers
	Quantity	1 to 30
Hardware		Stainless steel, passivated
Potting Material	Standard	EP1730-1 or equivalent; or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling		Friction or Jackscrews into jackposts/threaded Inserts

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11			
105	R	09	P	-	3	A	V	1	2	-	C	-	10

Series 1
105 Strip Connector Backshell Series

Insulator Material 2
R Polyphenylene Sulfide (Ryton)

Connector Size (Number of contacts) 3
1 to 30 No guided pins
1 to 29 Guided pin on one end
1 to 28 Guided pin on both ends

Connector Type 4
P Plug
S Receptacle
R Receptacle with Faceseal Excluded

Wire Size (AWG) 5

1	32	3	28	5 [†]	25
2	30	4*	26	6	24

SOLDER CUP
Omit for Standard Solder Cup

*M83513 Standard
†Solid Wire Only

Wire Type 6

Omit for Standard Solder Cup

NAVAL APPLICATIONS

A 7 Strand per NEMA-HP3 (MIL-W-16878/4)
B 7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C 19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D 19 Strand Per NEMA-HP3 (MIL-W-16878/6)

MILITARY / AEROSPACE

E Per MIL-W-22759/11 (M83513 Standard)
F Per MIL-W-22759/33 (Space Grade)
L Solid Wire Uninsulated

Wire Color / Finish 7

Omit for Solder Cup

V Right angled, tin
W Right angles, gold
SM Surface mount

Wire Length – Dimensions in inches 8

Omit for Solder Cup

1 0.109 tails
2 0.140 tails
3 0.172 tails
4 0.250 tails
SM Surface mount

Guide Post/Hole Location 9

Omit for no guide post

1 Guide post/hole on position 1

2 Guide post/hole on both ends

3 Guide post/hole on end position

X Guide post/hole in middle positions

▲ Guide Post for Receptacle guide & Hole for plug

Mounting Holes & Latches 10

Latch takes up one (1) location & Mounting Holes take up three (3) locations

See "Hardware" table on page 69 for part numbering

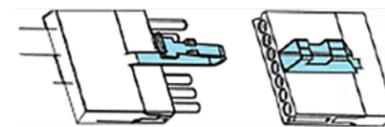
Non-Standard Length Code 11
Dimensions in inches

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110=.110" 999=.999"

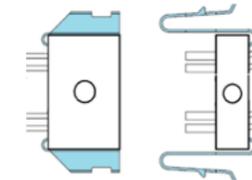
HARDWARE

Guide Posts	Standard No mounting holes or latch	Middle Mounting Hole	Two (2) Mounting Holes	Top Latch	Side Latches	Top Latch & Two (2) Mounting Holes	Side Latches & Middle Hole	Side Latches & Two(2) Mounting Holes
No guide post	Blank	A	E	4	5	L	Q	U
Position 1	1	B	F	6	7	M	R	V
Both ends	2	C	G	8	9	N	S	W
On end position	3	D	H	J	K	P	T	Y
In middle positions	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom

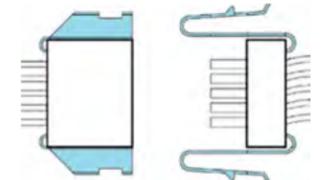
Middle Hole/Top Latch



Side Latch

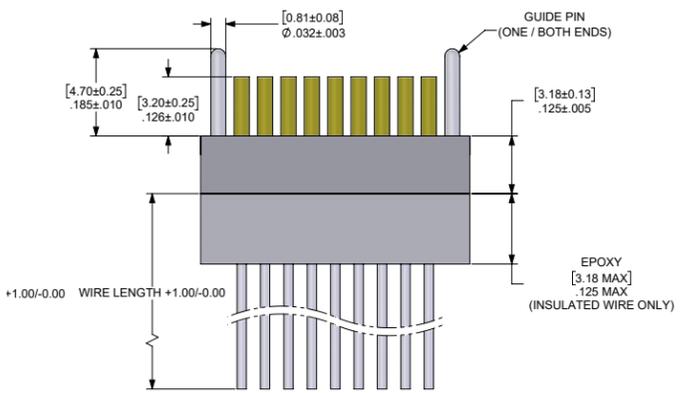
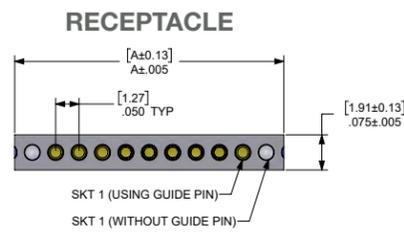
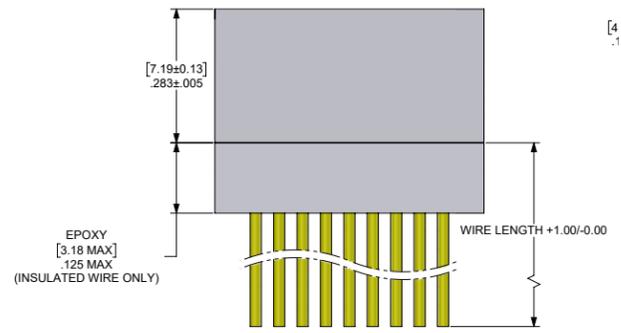
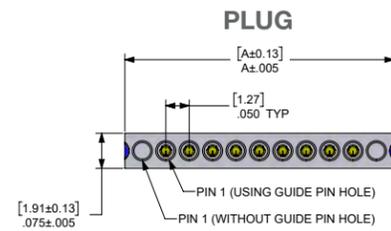


Side Latch with Middle Hole



Standard Micro-D
Environmental & Material Options
Mechanical & Locking Types
Board-Level Solutions
Filtered & EMI Solutions
Accessories

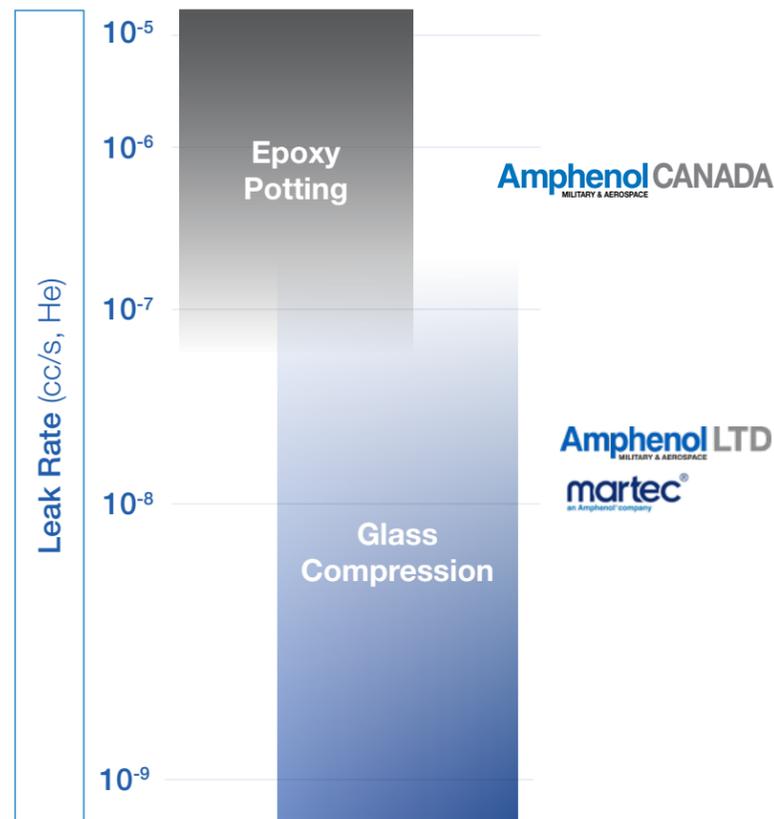
Standard Micro-D
Environmental & Material Options
Mechanical & Locking Types
Board-Level Solutions
Filtered & EMI Solutions
Accessories



Dimensions are in inch (mm)

SIZE	A ±0.005 (0.13)
1	.075 (1.91)
2	.125 (3.18)
3	.175 (4.45)
4	.225 (5.72)
5	.275 (6.99)
6	.325 (8.26)
7	.375 (9.53)
8	.425 (10.80)
9	.475 (12.07)
10	.525 (13.34)
11	.575 (14.61)
12	.625 (15.88)
13	.675 (17.15)
14	.725 (18.42)
15	.775 (19.69)
16	.825 (20.96)
17	.875 (22.23)
18	.925 (23.50)
19	.975 (24.77)
20	1.025 (26.04)
21	1.075 (27.31)
22	1.125 (28.58)
23	1.175 (29.85)
24	1.225 (31.12)
25	1.275 (32.39)
26	1.325 (33.66)
27	1.425 (36.20)
28	1.425 (36.20)
29	1.475 (37.47)
30	1.525 (38.74)

HERMETIC SEALING SOLUTIONS



If the sealing environment includes extreme variations in pressure, temperature, or temperature changes, it may be necessary to reduce the potting seal's capacity or use different sealing mechanisms. These conditions can affect standard seals' effectiveness, requiring a customized approach. Custom designs can improve airtightness and meet specific requirements. This may involve adjusting the connectors' depth or overall profile, or using advanced technologies like glass compression seals.

In extremely challenging situations where traditional methods, like front-panel O-rings and epoxy potting, are insufficient, we can leverage our partnership with Amphenol LTD / Martec to offer advanced Micro-D connector designs. Glass-compression technology, as shown in the chart, significantly advances true hermetic seals, with capabilities down to 10^{-9} cc/s. This technology is essential for maintaining integrity under demanding conditions.

Through our collaboration with Amphenol LTD / Martec, we deliver top-notch solutions tailored to withstand harsh environments. By integrating advanced sealing techniques and custom designs, we ensure our products exceed the rigorous requirements of extreme applications, providing reliable and durable performance.



- Standard Micro-D
- Environmental & Material Options**
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

SEALED MICRO-D 107 SERIES

The 107 Series Panel Seal Micro-D Connector offers a wide range of panel mounting applications, from environmental to hermetic setups, while delivering comprehensive protection against EMI and moisture. Its potted sealing construction is compatible with IEC60529 IP67, ensuring reliable performance in harsh conditions.

Sealed Connectors offer a significant upgrade to what is typically specified by catalogue products. The same MIL-DTL-83513 durability and quality are assured with the additional functionality required by ever more compact electronics enclosure applications.

The only question is "how to achieve the sealing?", and Amphenol offers a full range of options.

The main consideration for determining which product solution is required comes down to the sealing level. In all cases, design effort will target parts of the connector build which contribute to leak paths from the exterior of an enclosure to the interior area to protect. Leak paths exist at the panel or enclosure interface, and between connector components and subassemblies.

Connector builds seek to minimize or eliminate these paths where leakage exists. Seal efficacy is often characterized in terms of a maximum leak rate, commonly based on helium (He) as the test medium. Most seals can be accomplished by a combination of O-ring face seals combined with connector assemblies sealed with epoxy potting. This approach is suitable for leak rates down to approximately 10^{-7} cc/s (cubic centimeters per second) depending on other environmental factors.

GLASS COMPRESSION FEATURES

Enhanced Hermeticity

Harsh-Environment Performance

Ultra-Low Leak Rates

EPOXY POTTING FEATURES

Cost Effective

High Versatility

SPECIFICATIONS

Shell	Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Finish	Metal	» Anodized (Black) » Zinc Nickel (Black Chromate) » Cadmium (Yellow Chromate) » Olive Drab Cadmium » Chem Film
Insulator / PCB Backshell	Material	Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
	Material	Copper alloy, 50 micro-inches gold plate over nickel	
Contacts	Spacing	0.050" (1.27mm) centers	
	Quantity	9 15 21 25 31 37 51 69 100	
Hardware	Stainless steel, passivated		
Potting Material	Standard	EP1730-1 or equivalent; or equivalent	
	High Temp	EP173859 or equivalent	
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33	
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)	
Coupling	Friction or Jackscrews into jackposts/threaded Inserts		

FEATURES

- Insulated or conductive O-Ring supplied
- Ground spring to improve EMI protection (Optional)

HARNESSED CONNECTORS

- Metal shells to provide RFI/EMI shielding
- Pre-wired and fully potted

PCB CONNECTORS

- Solid copper 24 AWG PCB leads, Tin plated, and solder dipped

PART NUMBER KEY

RoHS Compliance	Series	Sealing Code	Shell Finish	Connector Size	Connector Type	Wire Size (AWG)	Wire Type	Wire Finish	Wire Length	Hardware	Non-Standard Length Code
1 E	2 107	3 R	4 N	5 25	6 P	7 4	8 A	9 5	10 F	11 P	12 48

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

107	O-Ring Micro-D
147	O-Ring Micro-D (Passivated Stainless Steel)

Sealing Code 3

R	Standard O-Ring
D	Standard O-Ring, Narrow Shell
C	Conductive O-Ring
E	Conductive O-Ring, Narrow Shell
H	Epoxy Seal (10 ⁻⁵ cc/s Helium Leak Rate)
G	Glass Seal Hermetic (10 ⁻⁹ cc/s Helium Leak Rate)

Shell Finish 4

	Omit for 147 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69	

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

Wire Size (AWG) 7

4*	26	6	24
5†	25		

SOLDER CUP

Omit for Standard Solder Cup

* M83513 Standard
† Solid Wire Only

Wire Type 8

	Omit for Standard Solder Cup
GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 9

	Omit for Standard Solder Cup
1	All White (M83513 STD) Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Color Black thru White related (M83513 Standard)

Wire Length – Dimensions in inches 10

	Omit for Solder Cup
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory 11

Metric Codes Available

	Omit for no jackpost or thread
MOUNTING HOLE	
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

Hardware — Pre-installed by factory 11

Metric Codes Available

Continued

JACKPOSTS		
P		Standard Jackpost
REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

Non-Standard Length Code 12

Dimensions in inches

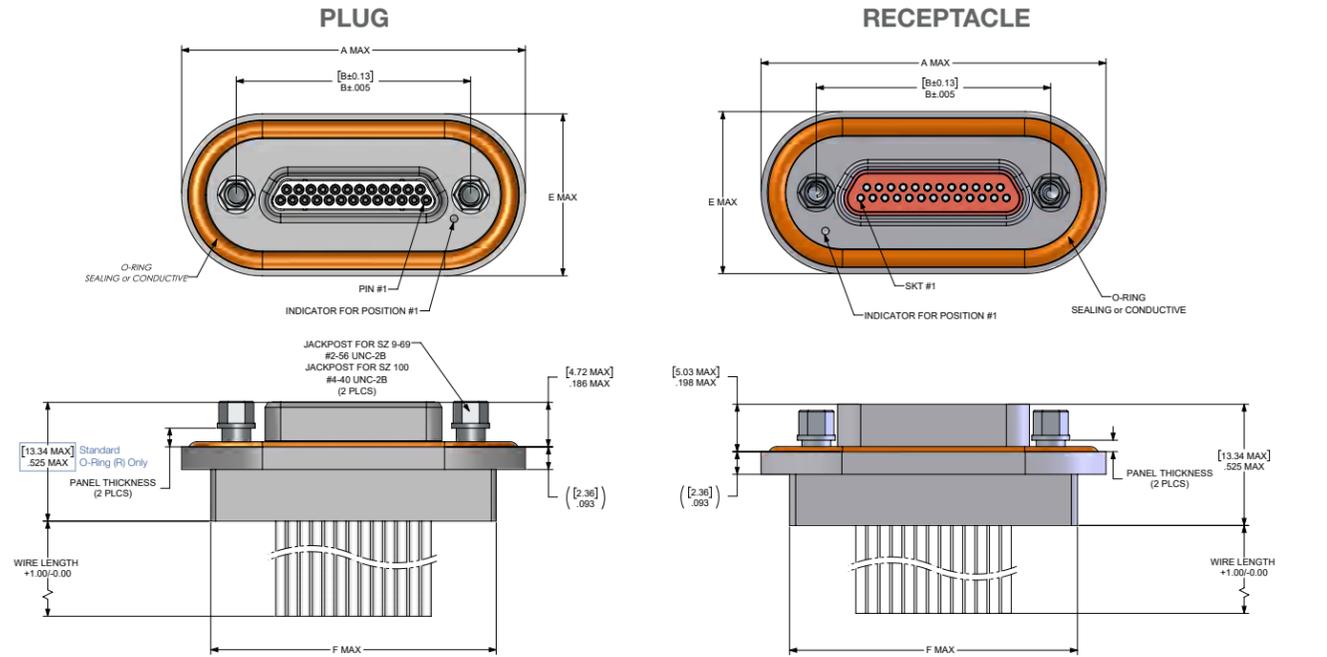
Stranded Wire	1 = 1.00"
	100 = 100.00"

FOR MORE INFORMATION

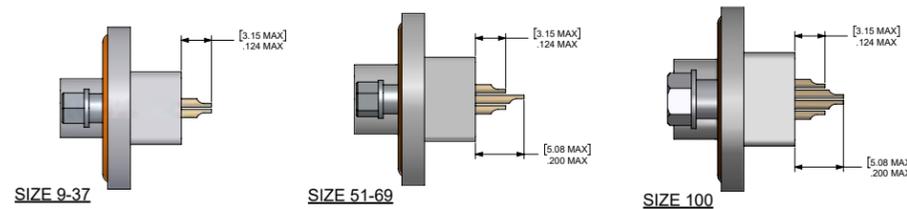
GENERAL INQUIRIES
✉ sales@amphenolcanada.com
☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

CRIMP/WIRE TERMINATION



SOLDER CUP TERMINATION PLUG/RECEPTACLE



Dimensions are in inch (mm)

SIZE	A MAX	B ±.005 (0.13)	E MAX	F MAX
09	1.025 (26.04)	.565 (14.35)	.675 (17.14)	.785 (19.94)
15	1.225 (31.11)	.715 (18.16)		.935 (23.75)
21	1.325 (33.66)	.865 (21.97)		1.085 (27.56)
25	1.425 (36.20)	.965 (24.51)		1.185 (30.10)
31	1.545 (39.24)	1.115 (28.32)		1.335 (33.91)
37	1.725 (43.82)	1.265 (32.13)		1.485 (37.72)
51	1.695 (43.05)	1.215 (30.86)		.715 (18.16)
69	1.995 (50.67)	1.515 (38.48)	1.735 (44.07)	
100	2.375 (60.33)	1.800 (45.72)	2.170 (55.12)	

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Termination Type	Hardware	Threaded Insert	Lead Length	Non-Standard Length Code
1 E	2 107	3 R	4 N	5 25	6 G	7 H6	8 PD	9 T	10 F	11 125

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

107	O-Ring Micro-D
147	O-Ring Micro-D (Passivated Stainless Steel)
117*	O-Ring Reversed Micro-D
144*	O-Ring Reversed Micro-D (Passivated Stainless Steel)

* Only with reversed CBR/HBR terminations

Sealing Code 3

R	Standard O-Ring
D	Standard O-Ring, Narrow Shell
C	Conductive O-Ring
E	Conductive O-Ring, Narrow Shell
H	Epoxy Seal (10 ⁻⁵ cc/s Helium Leak Rate)
G	Glass Seal Hermetic (10 ⁻⁹ cc/s Helium Leak Rate)

Shell Finish 4

	Omit for 147 & 144 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69	

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

Termination Type Other Types Available 7

CBR	Narrow Right Angle PCB
HBR	High Density CBR
C6	Straight PCB
H6	High Density Straight PCB

Hardware — Pre-installed by factory Metric Codes Available 8

	Omit for no jackpost or thread
--	--------------------------------

MOUNTING HOLE

H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

JACKPOSTS

P	Standard Jackpost
---	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)

Hardware — Pre-installed by factory Metric Codes Available Continued 8

SA	.027" - .037" (.68 - .94 mm)
SB	.042 - .052" (1.06 - 1.32 mm)
SC	.057 - .067" (1.45 - 1.70 mm)
SD	Slot .088 - .098" (2.24 - 2.49 mm)
SE	.075 - .085" (1.91 - 2.16 mm)
SF	.120 - .130" (3.05 - 3.30 mm)
SG	.067 - .077" (1.70 - 1.96 mm)

Threaded Insert † 9

	Omit for no threaded Insert
T	#2-56 Threaded Insert (Size 9 - 69)
U	#4-40 Threaded Insert (Size 100 only)
V	M2 Threaded Insert (Size 9 - 69)
Z	M3 Threaded Insert (Size 100 only)

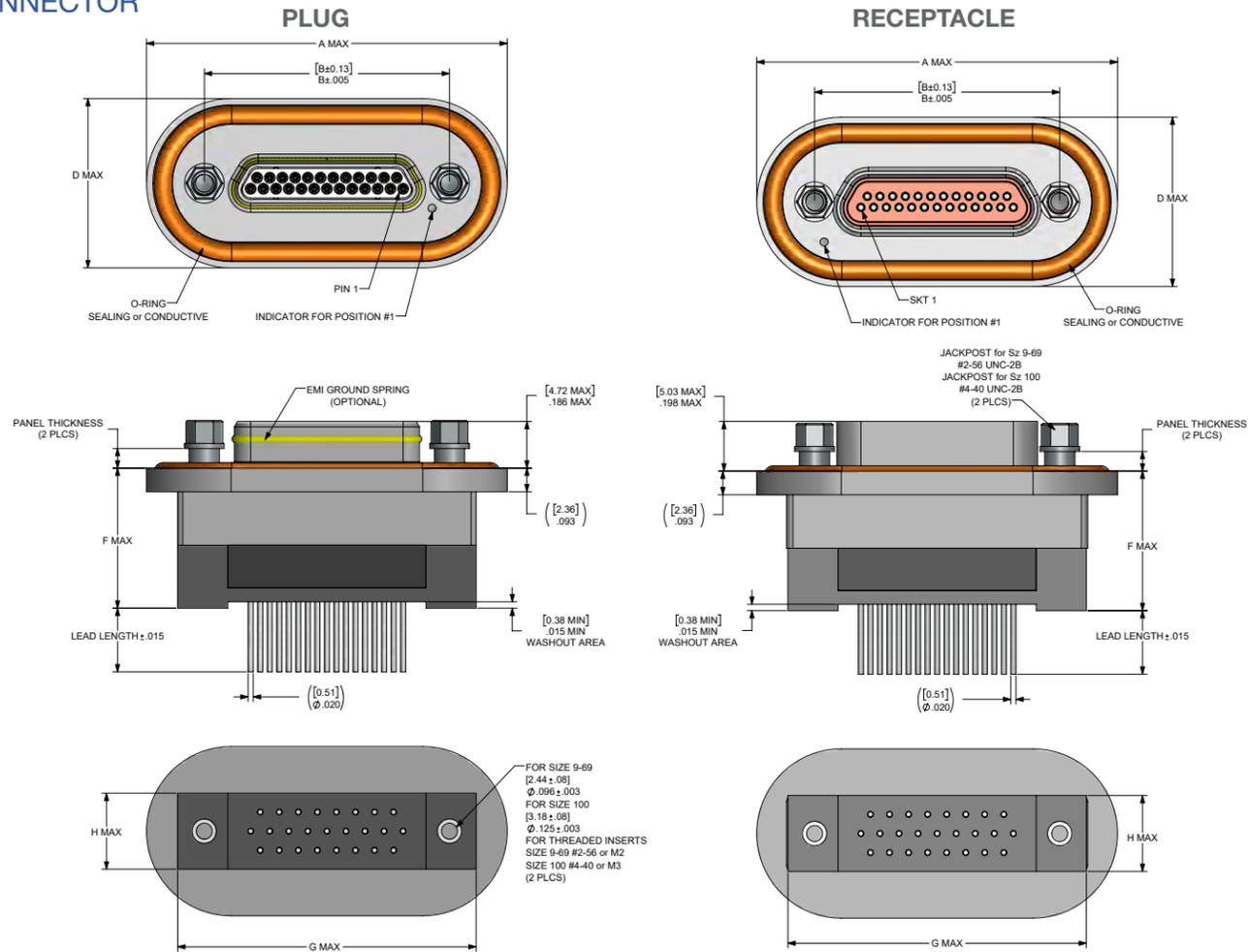
Lead Length — Dimensions in inches 10

1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code Dimensions in inches 11

Stranded Wire	1 = 1.00" 100 = 100.00"
---------------	----------------------------

C6 | H6 TERMINATION
BOARD STRAIGHT
CONNECTOR



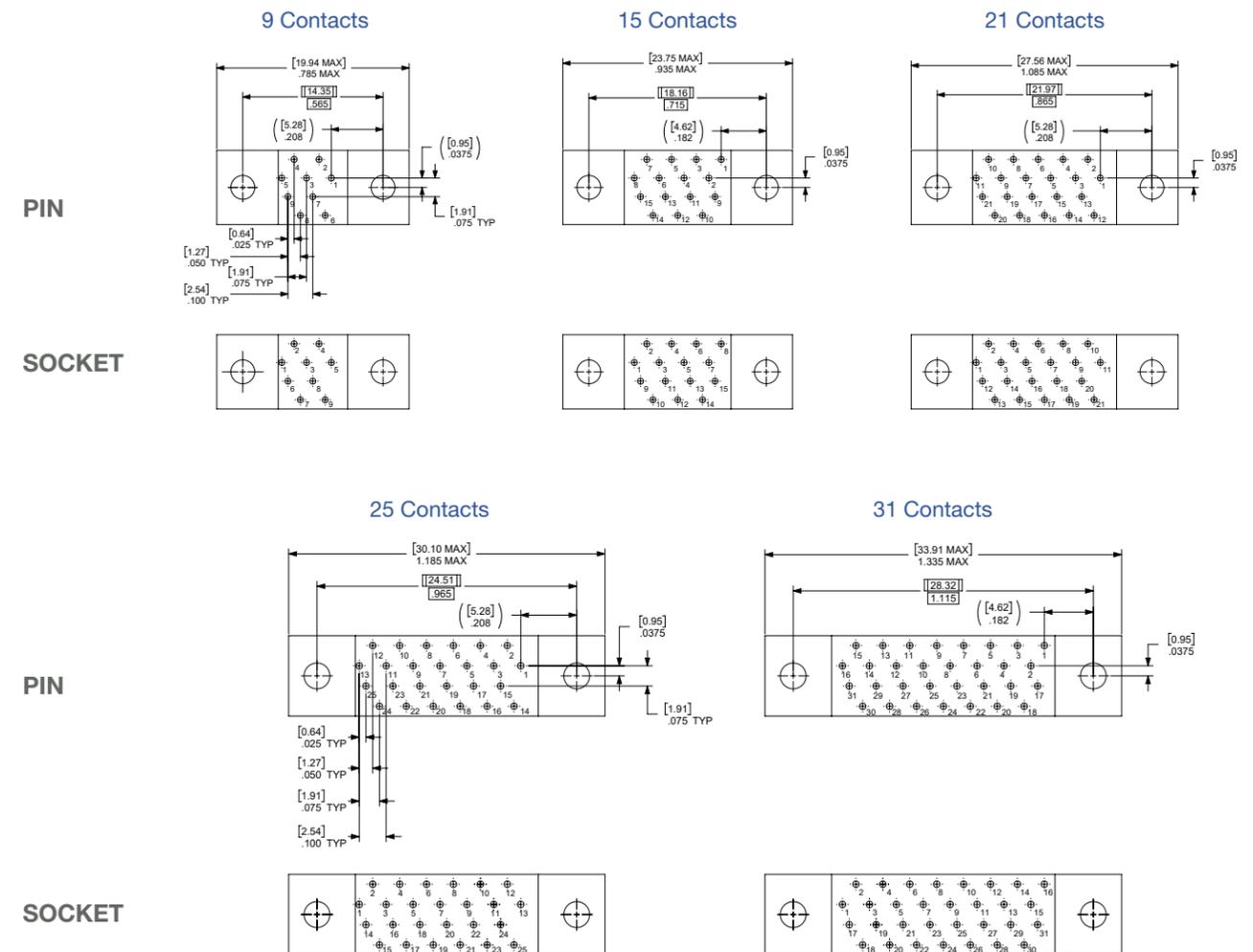
Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	D ±0.005 (0.13)	F MAX	G MAX	H MAX
09	1.025 (26.04)	.565 (14.35)			.785 (19.94)	
15	1.225 (31.12)	.715 (18.16)			.935 (23.75)	
21	1.325 (33.66)	.865 (21.97)	.675 (17.14)	.570 (14.48)	1.085 (27.56)	.310 (7.87)
25	1.425 (36.20)	.965 (24.51)			1.185 (30.10)	
31	1.545 (39.24)	1.115 (28.32)			1.335 (33.91)	
37	1.725 (43.82)	1.265 (32.13)			1.485 (37.72)	
51	1.695 (43.05)	1.215 (30.86)	.715 (18.16)		1.435 (36.45)	.400 (10.16)
69	1.995 (50.67)	1.515 (38.48)			1.735 (44.07)	
100	2.375 (60.33)	1.800 (45.72)	.765 (19.43)	.630 (16.00)	2.170 (55.12)	.510 (12.95)

*Applicable to Standard O-Ring (R) Only

C6 TERMINATION
BOARD STRAIGHT
CONNECTOR

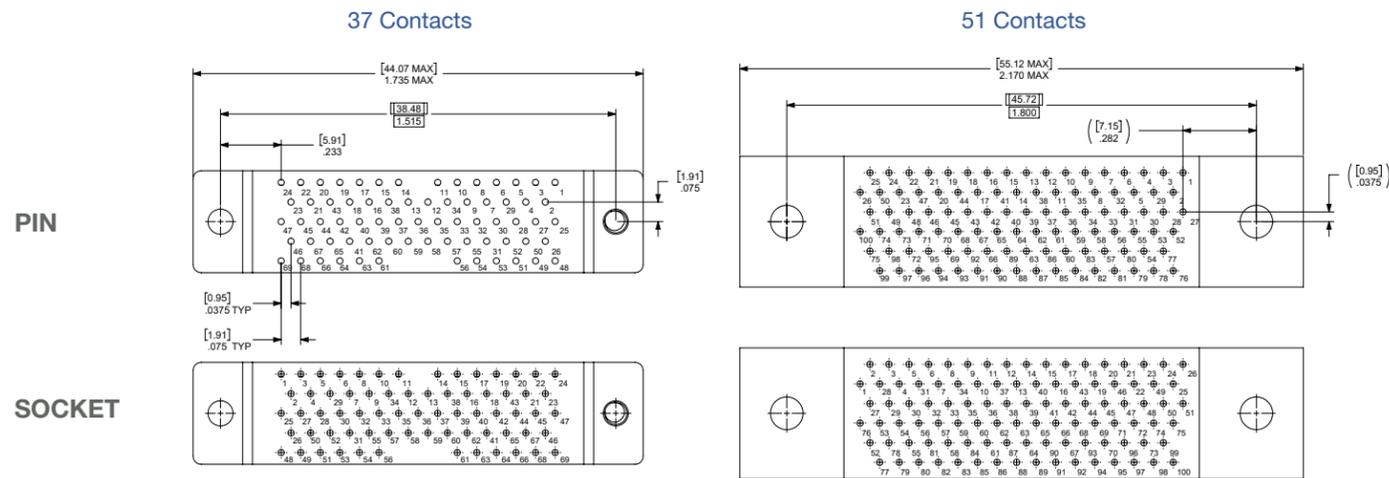
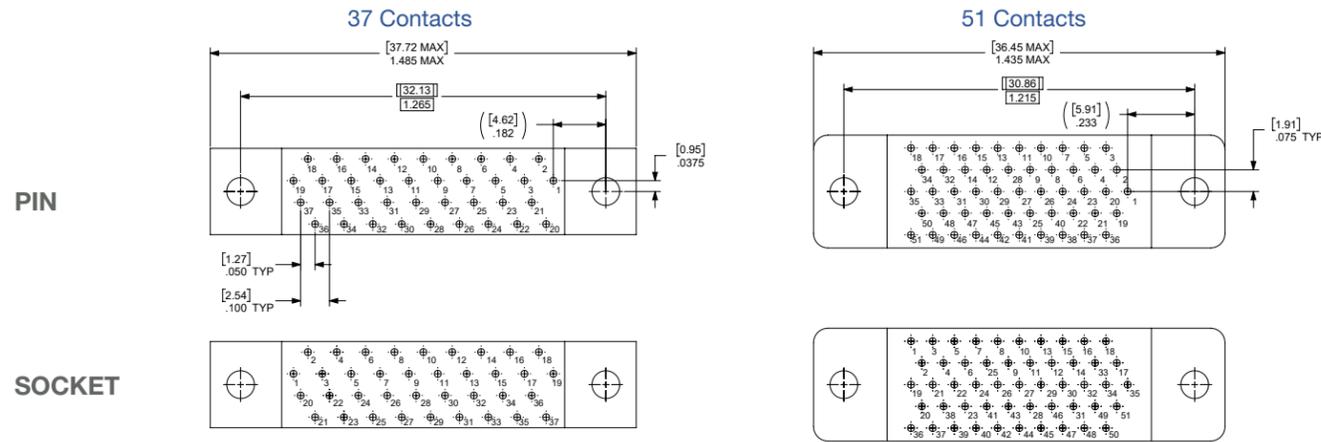
Vertical Mount (rear view)



* Cavity identification numbers are for reference only and does not appear on the connector.

**C6 TERMINATION
BOARD STRAIGHT
CONNECTOR**

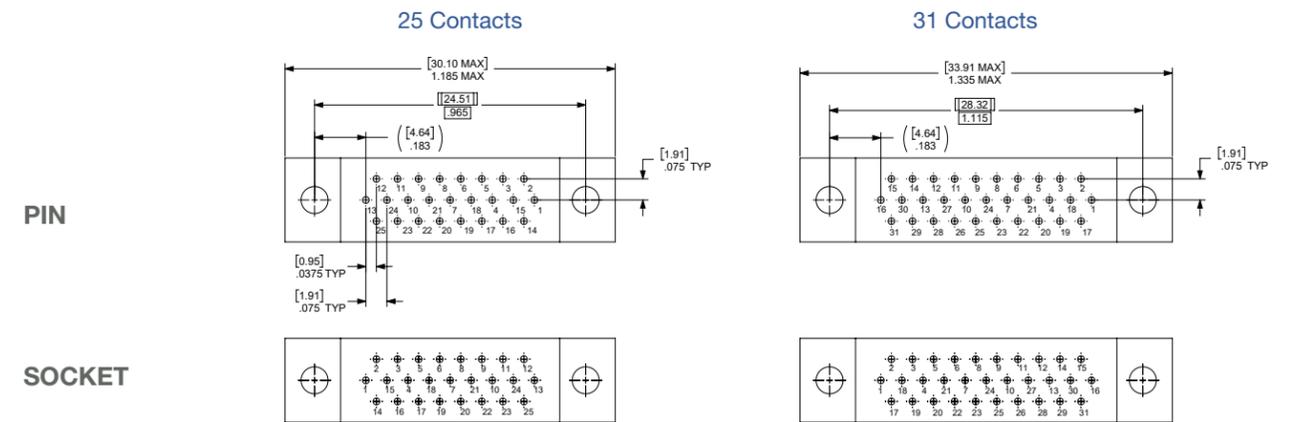
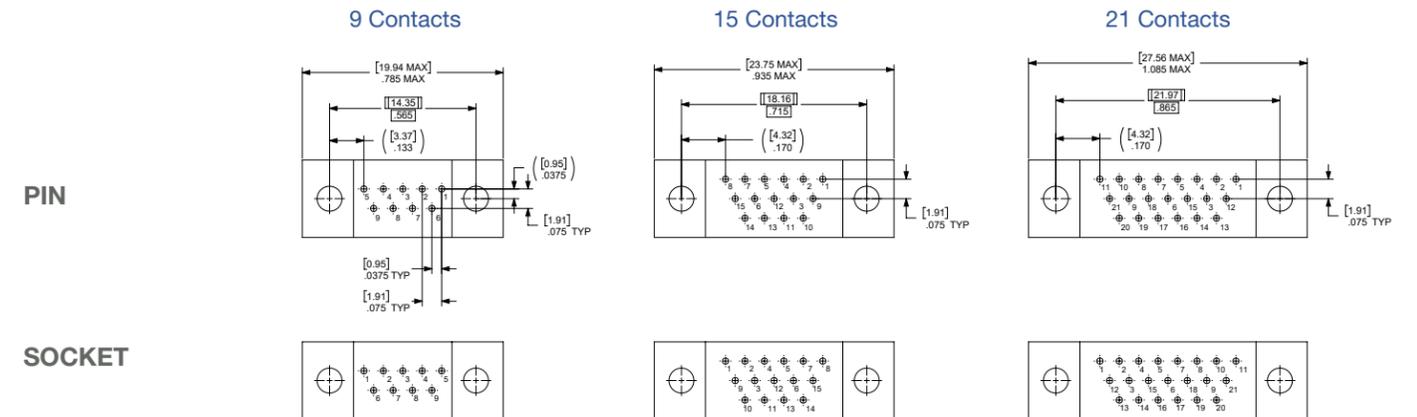
Vertical Mount (rear view)



* Cavity identification numbers are for reference only and does not appear on the connector.

**H6 TERMINATION
HIGH DENSITY BOARD STRAIGHT
CONNECTOR**

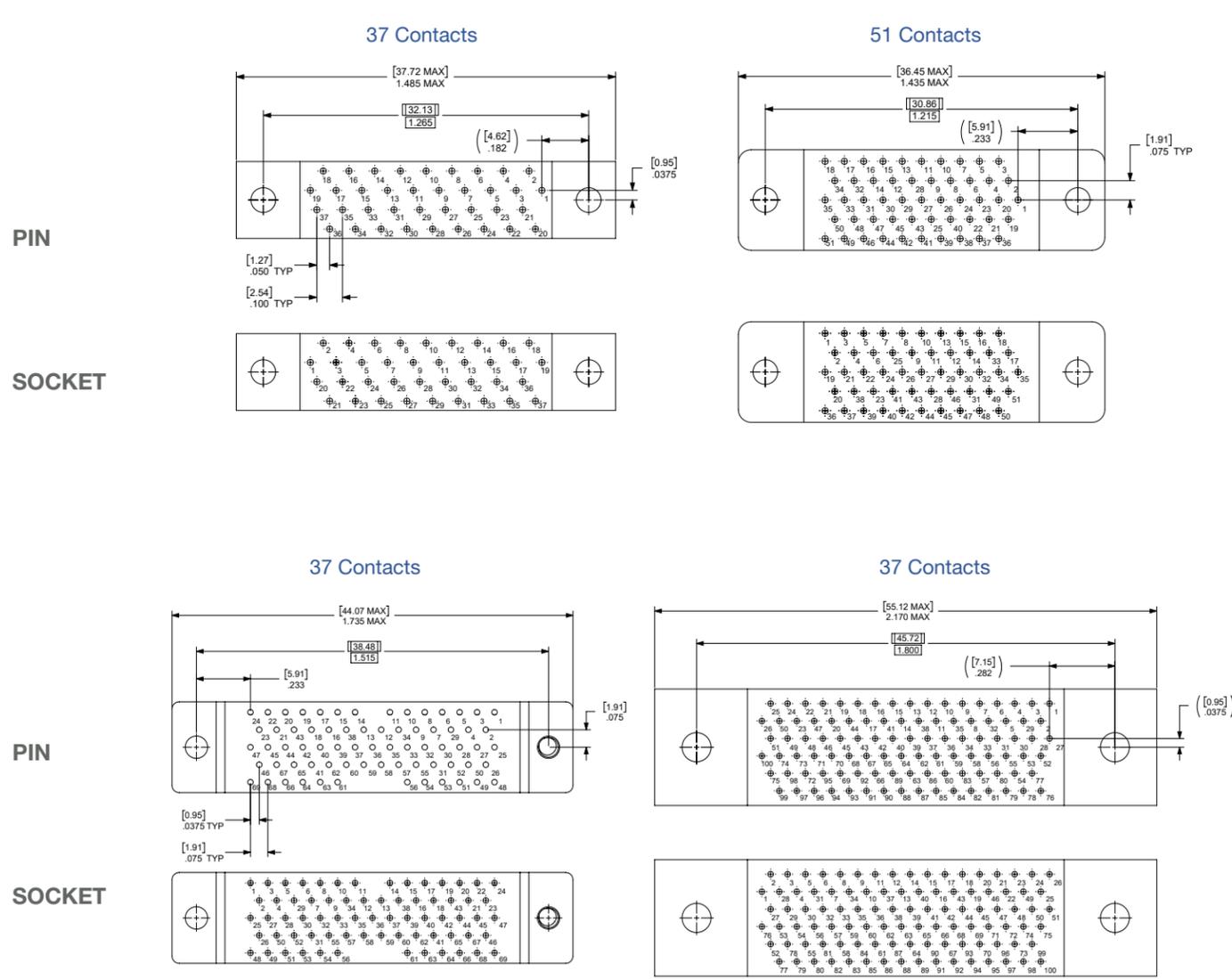
Vertical Mount (rear view)



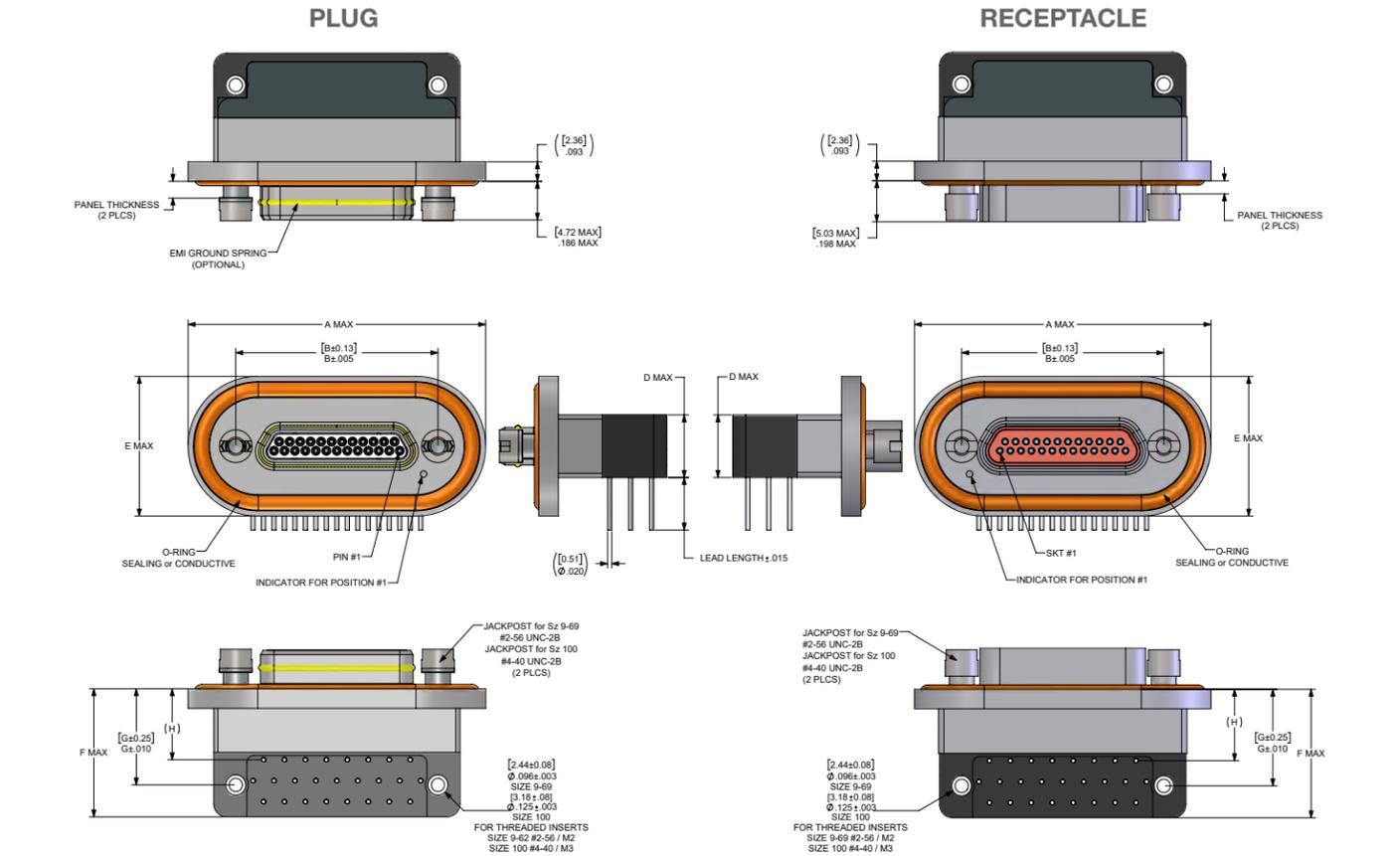
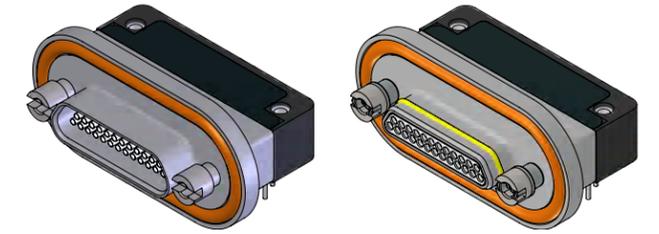
* Cavity identification numbers are for reference only and does not appear on the connector.

H6 TERMINATION
HIGH DENSITY BOARD STRAIGHT
CONNECTOR

Vertical Mount (rear view)



CBR | HBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE



Dimensions are in inch (mm)

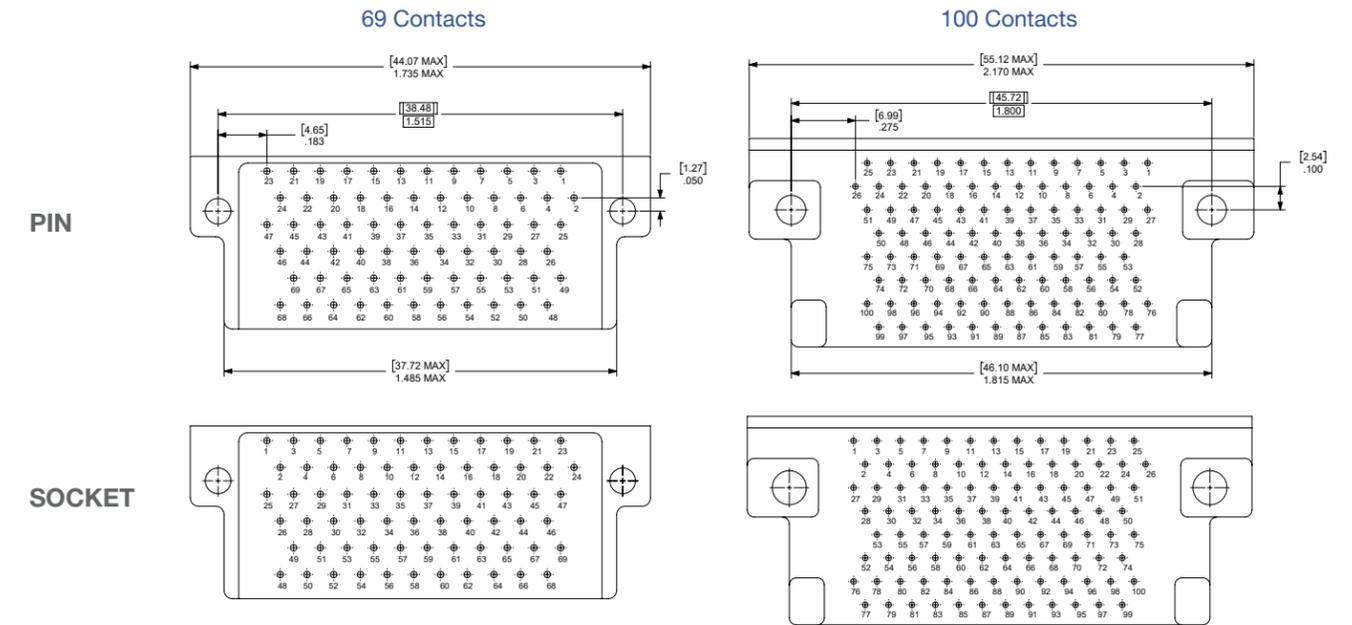
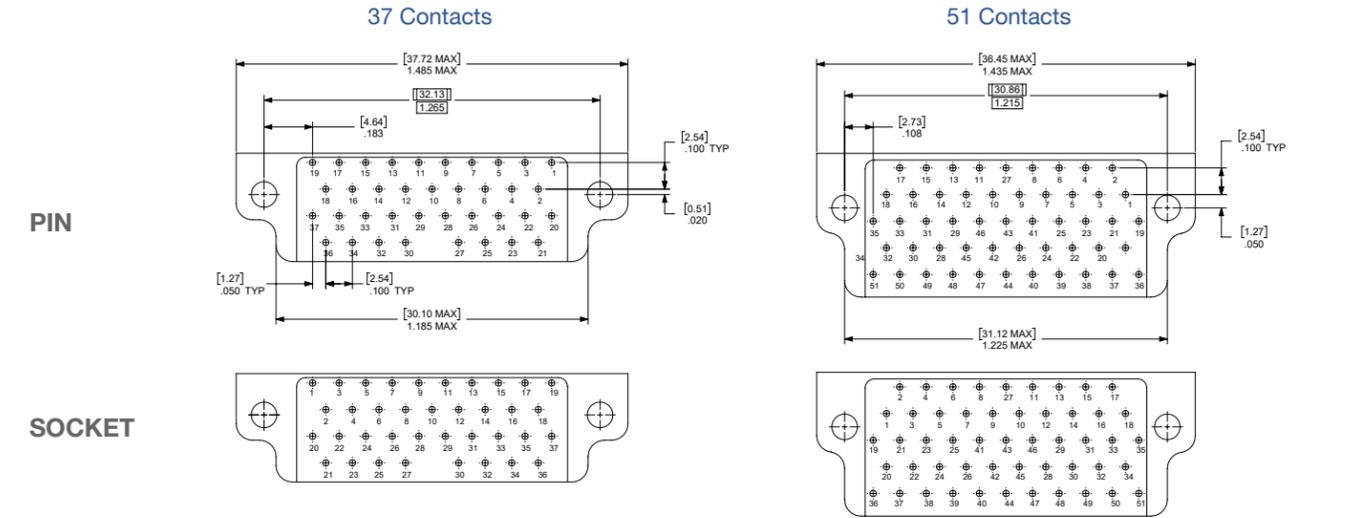
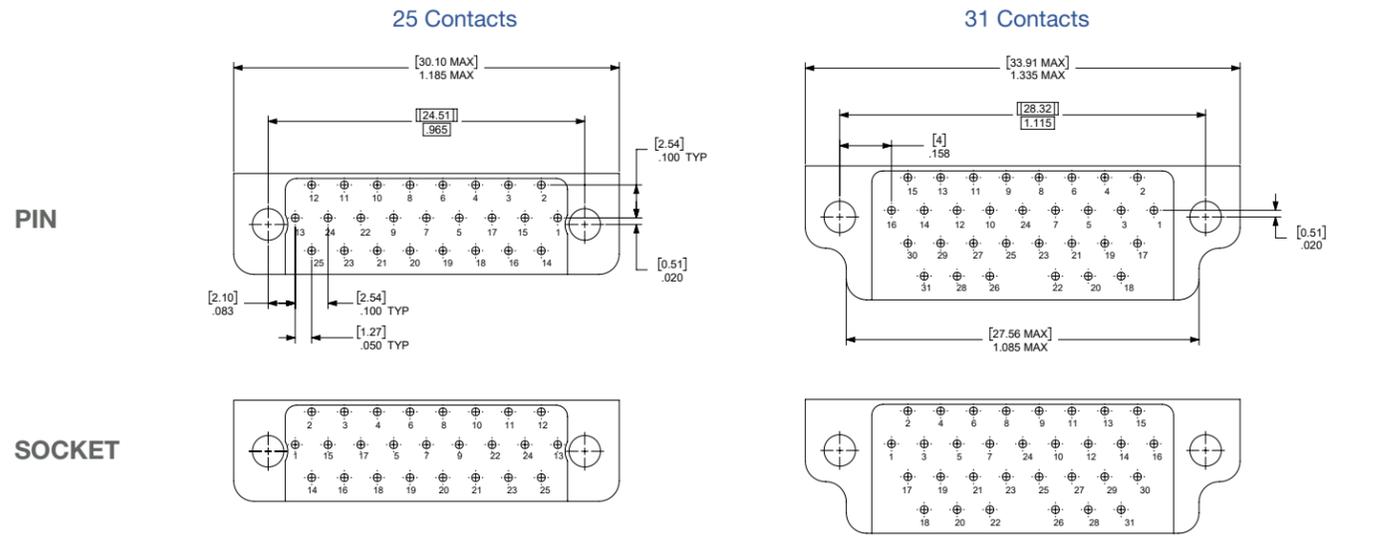
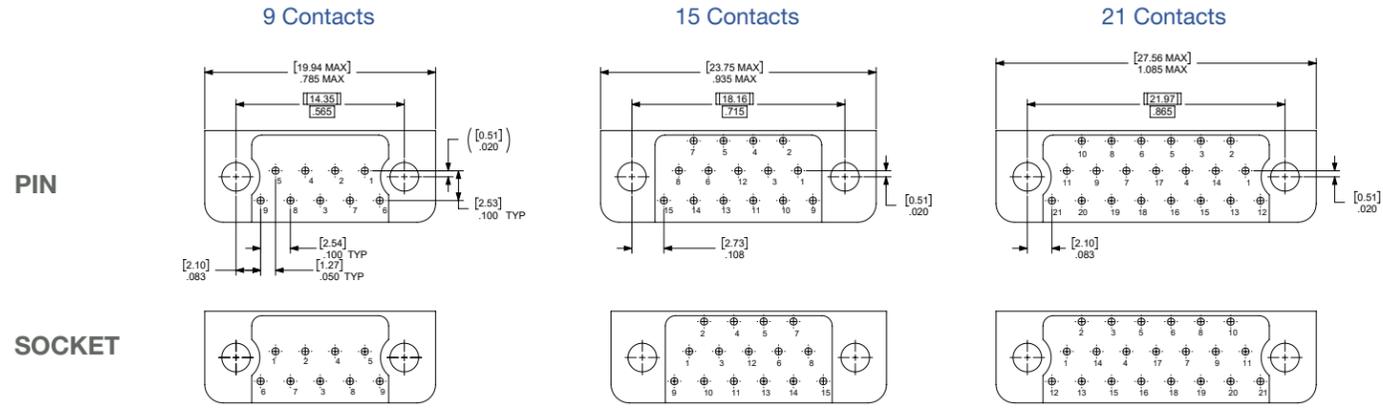
SIZE	A MAX	B ±0.005 (0.13)	D MAX	E MAX	F MAX		G ±0.010 (0.25)	H .REF	
					CBR	HBR		CBR	HBR
09	1.025 (26.04)	.565 (14.35)						.440 (11.18)	.418 (10.62)
15	1.225 (31.12)	.715 (18.16)							
21	1.325 (33.66)	.865 (21.97)			.650 (16.51)	.650 (16.51)			
25	1.425 (36.20)	.965 (24.51)	.308 (7.82)	.675 (17.14)			.460 (11.68)	.340 (8.64)	.380 (9.65)
31	1.545 (39.24)	1.115 (28.32)			.750 (19.05)	.650 (16.51)			
37	1.725 (43.82)	1.265 (32.13)							
51	1.695 (43.05)	1.215 (30.86)			.900 (22.86)	.750 (19.05)	.510 (12.95)	.360 (9.14)	.398 (10.11)
69	1.995 (50.67)	1.515 (38.48)			1.000 (25.40)				
100	2.375 (60.33)	1.800(45.72)	.394 (10.01)	.765 (19.43)	1.250 (31.75)	.900 (22.86)	.610 (15.49)	.410 (10.41)	.423 (10.74)

* Cavity identification numbers are for reference only and does not appear on the connector.

*Applicable to Standard O-Ring (R) Only

CBR TERMINATION
BOARD STRAIGHT RIGHT ANGLE CONNECTOR
NARROW PROFILE

0.100 [2.54] × 0.100 [2.54] Grid Pattern, Offset 0.050 [1.27]

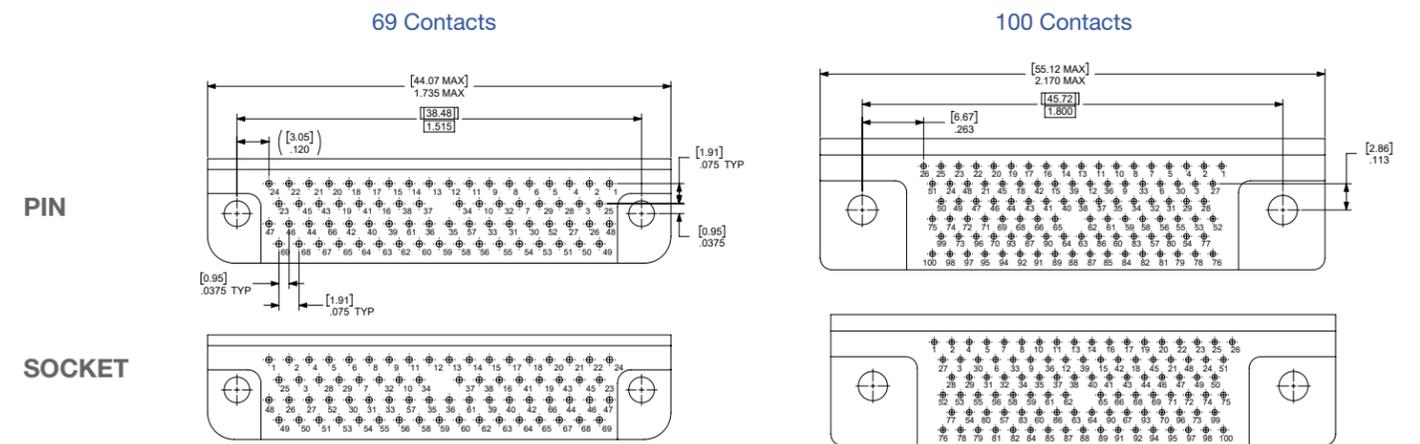
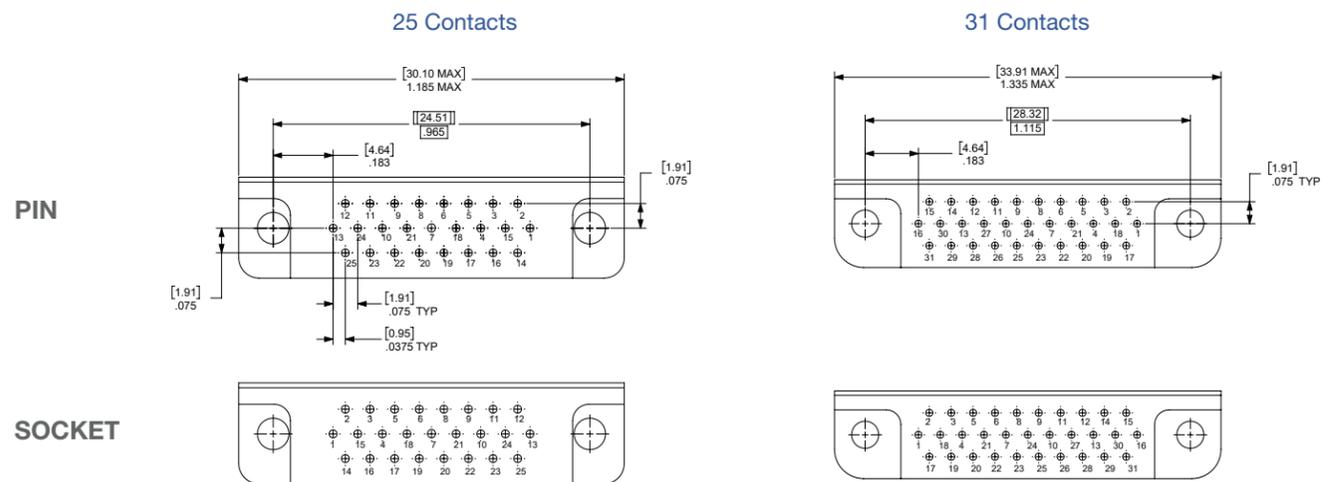
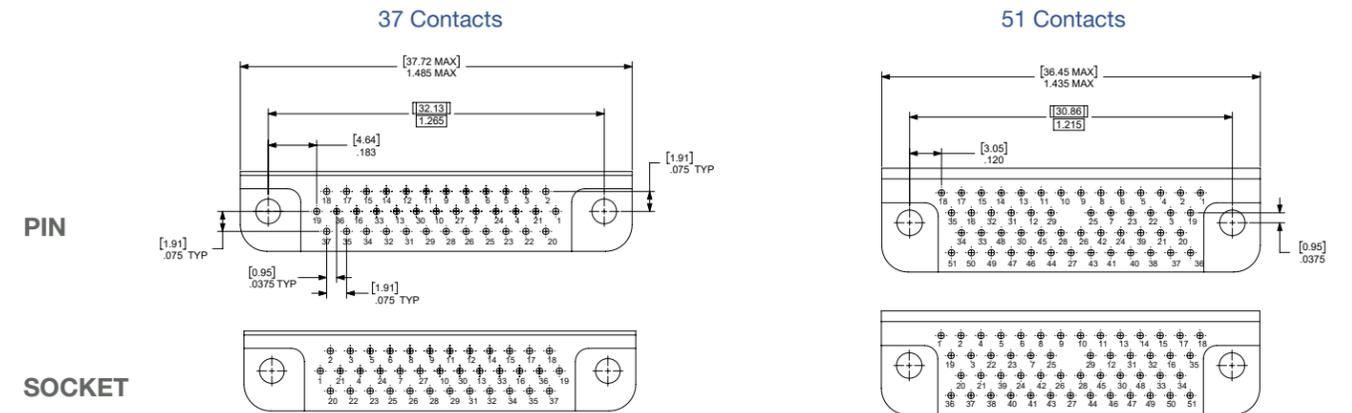
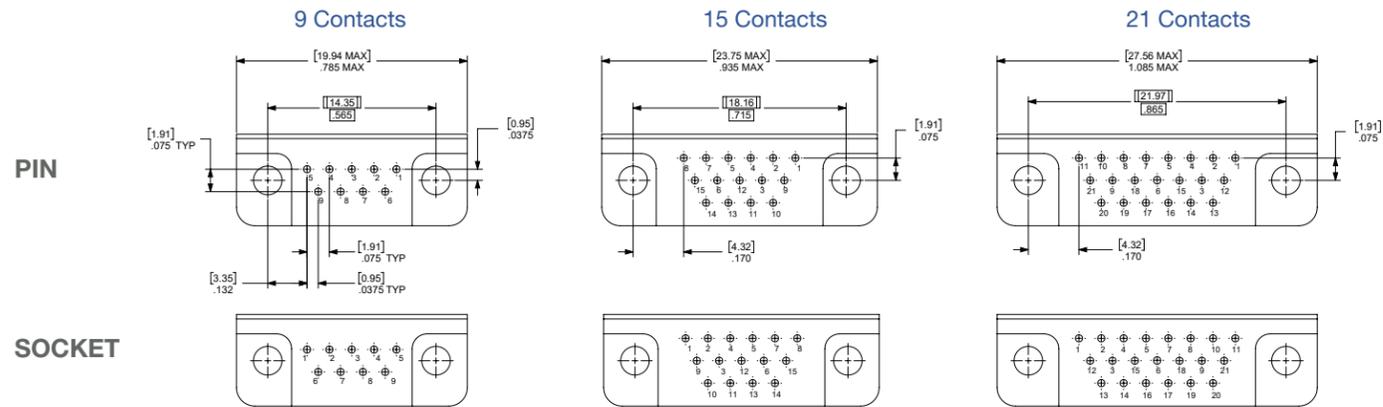


* Cavity identification numbers are for reference only and does not appear on the connector.

* Cavity identification numbers are for reference only and does not appear on the connector.

HBR TERMINATION
HIGH DENSITY BOARD STRAIGHT RIGHT ANGLE CONNECTOR
NARROW PROFILE

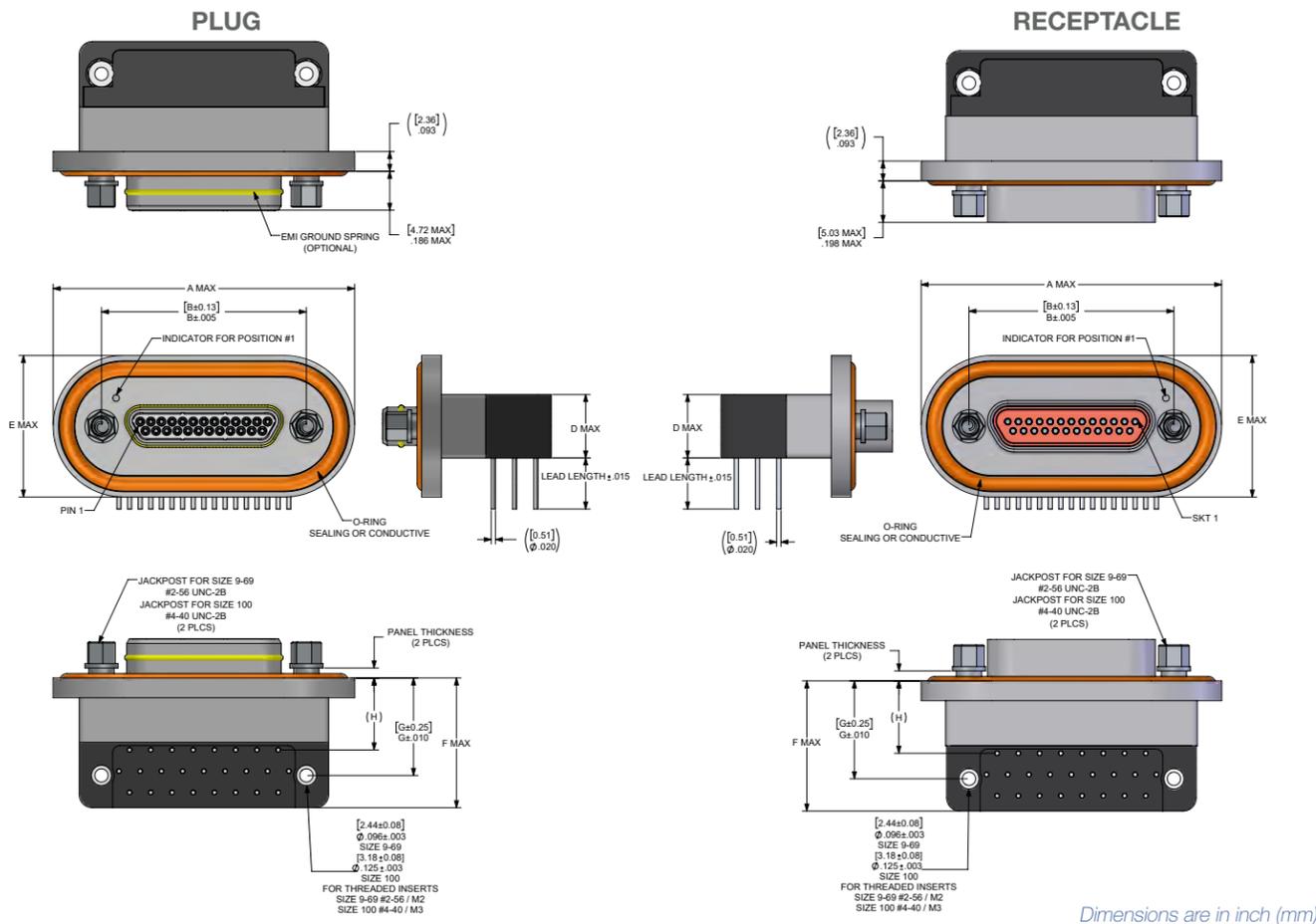
0.075 [1.91] × 0.075 [1.91] Grid Pattern, Offset 0.0375 [0.95]



* Cavity identification numbers are for reference only and does not appear on the connector.

* Cavity identification numbers are for reference only and does not appear on the connector.

REVERSED CBR | HBR TERMINATION BOARD RIGHT ANGLE CONNECTOR NARROW PROFILE

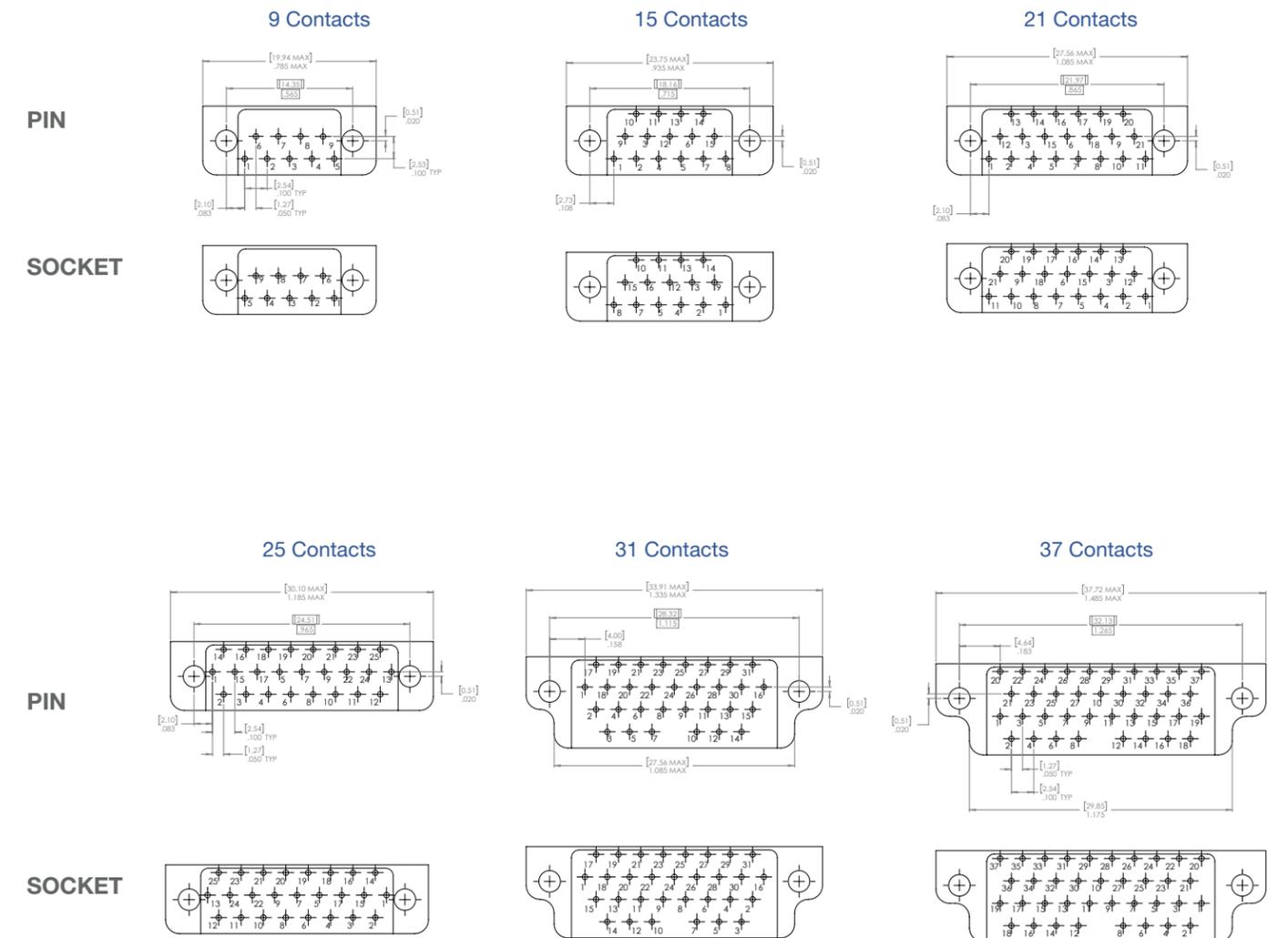


SIZE	A MAX	B ±0.005 (0.13)	D MAX	E MAX	F MAX		G ±0.005 (0.13)	H ±0.005 (0.13)	
					CBR	HBR		CBR	HBR
09	1.025 (26.04)	.565 (14.35)	.308 (7.82)	.675 (17.14)	.650 (16.51)	.650 (16.51)	.460 (11.68)	.440 (11.18)	.418 (10.62)
15	1.225 (31.12)	.715 (18.16)						.340 (8.64)	.380 (9.65)
21	1.325 (33.66)	.865 (21.97)	.355 (9.02)	.715 (18.16)	.750 (19.05)	.750 (19.05)	.510 (12.95)	.360 (9.14)	.398 (10.11)
25	1.425 (36.20)	.965 (24.51)						.410 (10.41)	.423 (10.74)
31	1.545 (39.24)	1.115 (28.32)	.394 (10.01)	.765 (19.43)	.900 (22.86)	.900 (22.86)	.610 (15.49)	.410 (10.41)	.423 (10.74)
37	1.725 (43.82)	1.265 (32.13)							
51	1.695 (43.05)	1.215 (30.86)	.394 (10.01)	.765 (19.43)	1.000 (25.40)	.900 (22.86)	.610 (15.49)	.410 (10.41)	.423 (10.74)
69	1.995 (50.67)	1.515 (38.48)							
100	2.375 (60.33)	1.800 (45.72)	.394 (10.01)	.765 (19.43)	1.250 (31.75)	.900 (22.86)	.610 (15.49)	.410 (10.41)	.423 (10.74)

*Applicable to Standard O-Ring (R) Only

REVERSED CBR TERMINATION BOARD RIGHT ANGLE CONNECTOR NARROW PROFILE

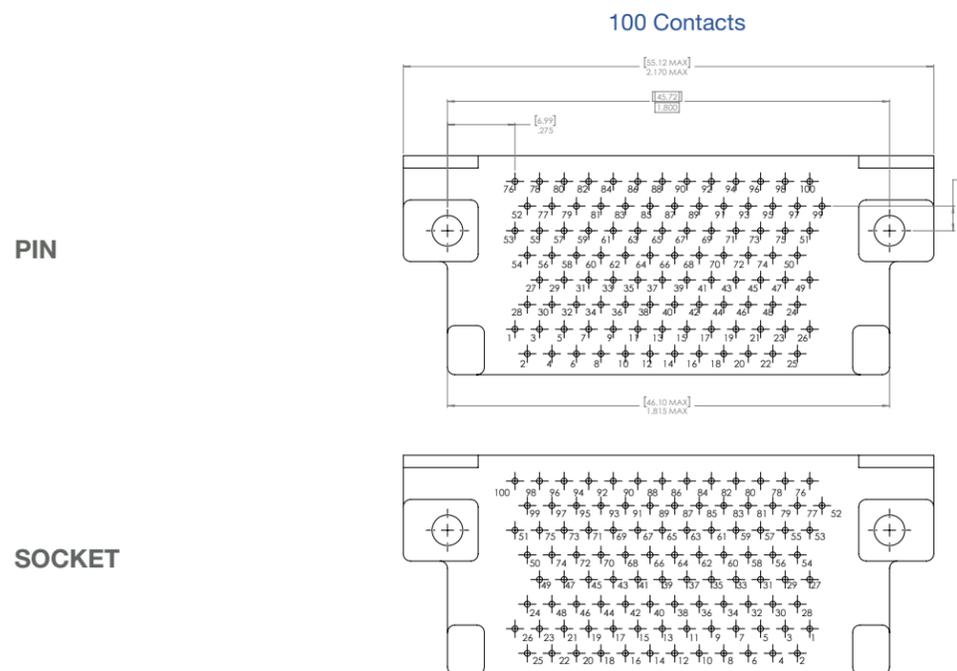
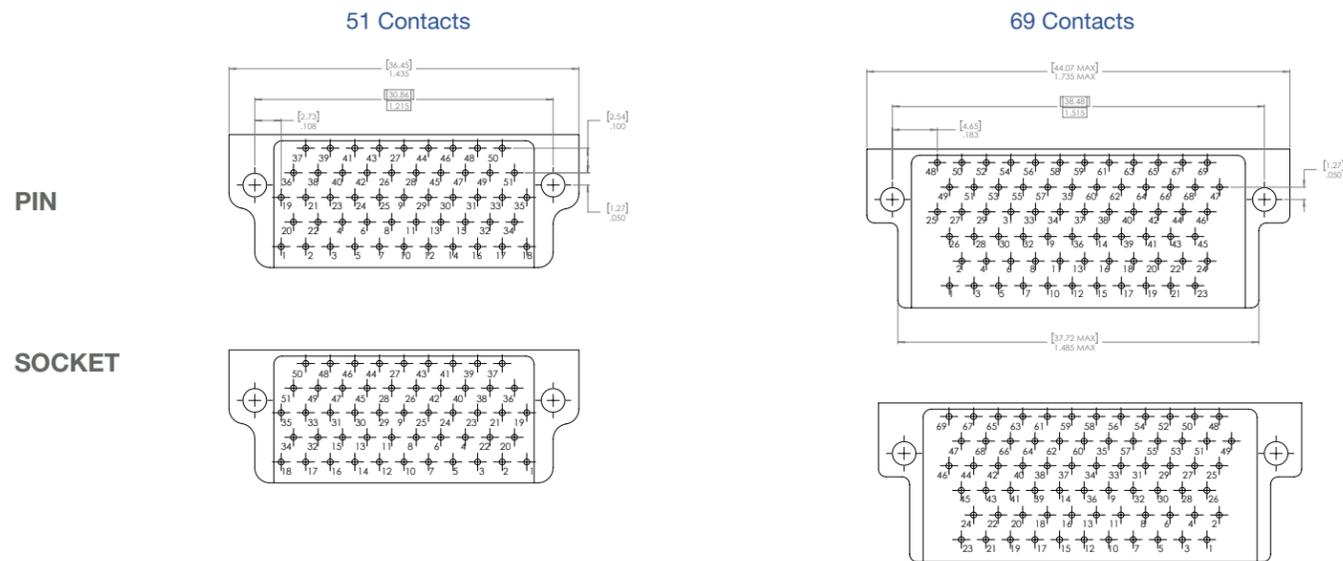
Vertical Mount (rear view)



*Cavity identification numbers are for reference only and does not appear on the connector.

REVERSED CBR TERMINATION
BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

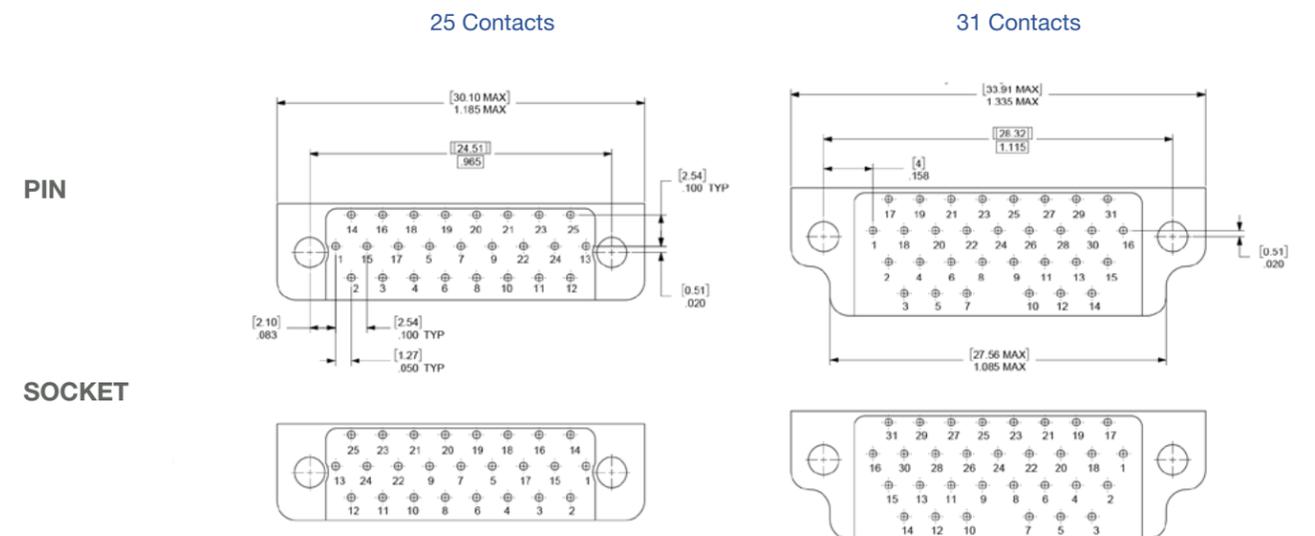
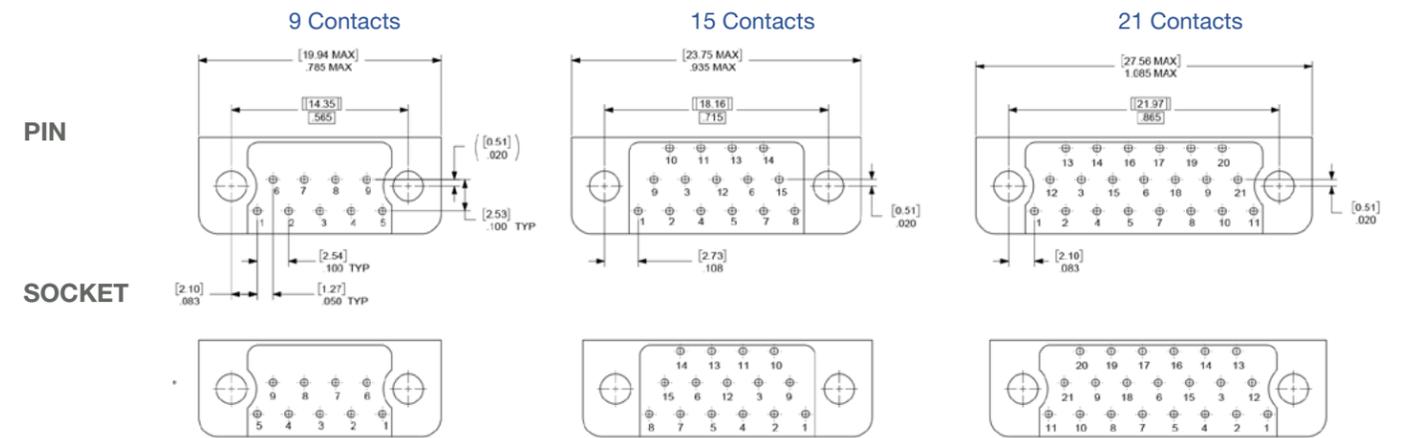
Vertical Mount (rear view)



* Cavity identification numbers are for reference only and does not appear on the connector.

REVERSED HBR TERMINATION
HIGH DENSITY BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

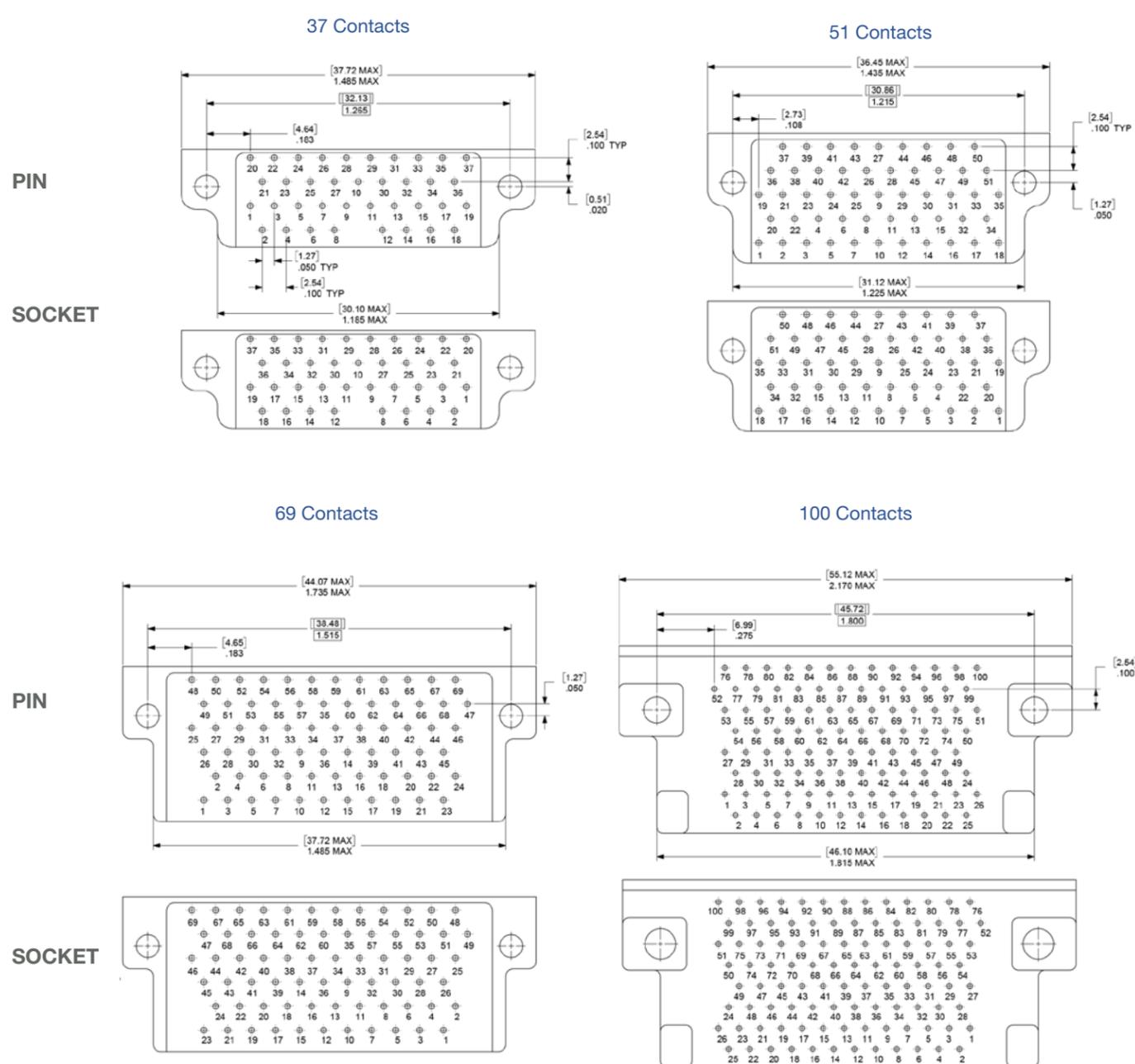
Vertical Mount (rear view)



* Cavity identification numbers are for reference only and does not appear on the connector.

REVERSED HBR TERMINATION
HIGH DENSITY BOARD RIGHT ANGLE CONNECTOR
NARROW PROFILE

Vertical Mount (rear view)

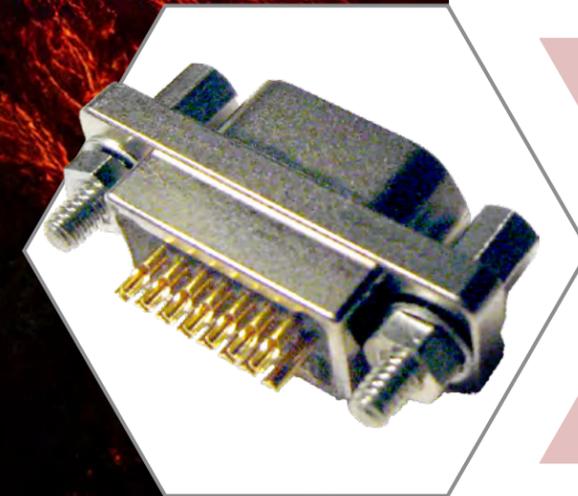
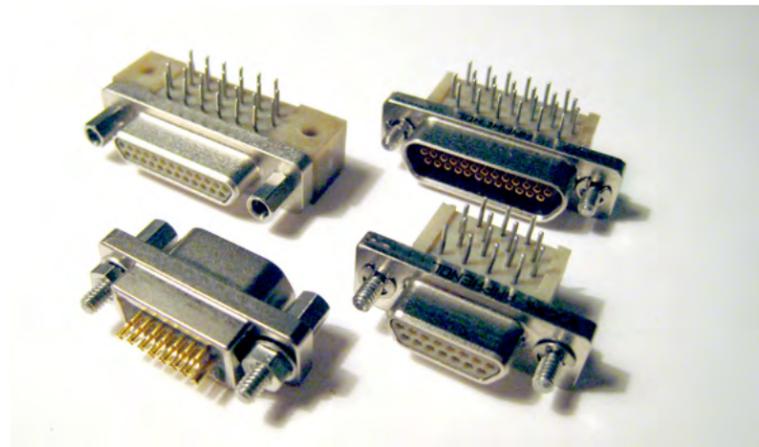


* Cavity identification numbers are for reference only and does not appear on the connector.

HIGH TEMPERATURE PERFORMANCE

The MDH Series connectors from Amphenol Canada are expertly engineered to perform in mission-critical applications within extreme thermal environments. Designed with precision and built for maximum reliability, these high-temperature Micro-D connectors offer exceptional durability and performance across a wide array of industries, ensuring they meet the rigorous demands of the most challenging and critical applications.

The MDH Series features stainless steel protective shells for superior resilience and corrosion resistance, advanced high-temperature insulator materials to maintain operational integrity in elevated temperatures, and layered epoxy potting for enhanced protection. Fully compliant with MIL-DTL-83513 industry standards, these connectors are a trusted solution for high-performance applications in the most extreme and demanding environments.



HIGH TEMPERATURE MICRO-D MDH SERIES

- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

The MDH Series high-temperature Micro-D Connectors are engineered to ensure mission-critical performance in extreme environments. Designed for durability and reliability, they perform seamlessly at continuous temperatures of up to 200°C and modified duty cycles reaching 300°C, all while meeting rigorous MIL-DTL-83513 standards.

TEMP. LIMIT	MDH LEVEL	PERFORMANCE / DEVELOPMENT NOTES	KEY APPLICATIONS
300° C	Level 1 Industrial High Temperature	Supports operations up to 4 hours at 260°C and 1 hour at 300°C	<ul style="list-style-type: none"> » Limited mission profile (hypersonic) » Protected space environments
200° C		Designed for continuous duty at 200°C	<ul style="list-style-type: none"> » Oil / gas (geophysical) » Commercial and industrial rugged applications
125° C	M83513 Standard Mil. Spec.	Meets MIL-DTL-83513 standards, supporting continuous operation up to 150°C to 175°C in most conditions.	<ul style="list-style-type: none"> » Military » Commercial » Industrial

SPECIFICATIONS

Shell	Material	Metal <ul style="list-style-type: none"> » Aluminum alloy » Stainless Steel (Passivated)
		Plastic
Finish	Material	<ul style="list-style-type: none"> » Anodized (Black) » Cadmium (Black Chromate) » Gold
		<ul style="list-style-type: none"> » Electroless Nickel » Iridite/Alodine » Nickel fluorocarbon polymer
Insulator / PCB Backshell		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel
	Spacing	0.050" (1.27mm) centers
	Quantity	9 15 21 25 31 37 51 69 100
Hardware		Stainless steel, passivated
Potting Material	Standard	EP1730-1 or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling		Friction or Jackscrews into jackposts/threaded Inserts

FEATURES

- Stainless steel protective shells
- High-temperature insulator materials
- Layered epoxy potting
- Meets MIL-DTL-83513 performance in varying conditions
- Continuous operation up to 200°C
- Modified duty up to 300°C

PART NUMBER KEY

Series	MDH Level	Connector Size	Connector Type	Wire Size (AWG)	Wire Type	Wire Finish	Wire Length	Hardware	Non-Standard Length Code
1 MDH	2 1	3 25	4 P	5 4	6 A	7 B	8 F	9 4	10 10

Series 1

MDH	High Temperature Micro-D
-----	--------------------------

MDH Level / Shell Material 2

LEVEL 1	
1	Standard (Passivated Stainless Steel)
N	Aluminum Shell, Nickel Plated
P	Plastic Shell

Connector Size (Number of contacts) 3

09	25	51
15	31	69
21	37	100

† Consult factory for dimensions

Connector Type 4

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with EMI Ground Spring

Wire Size (AWG) 5

1	32	4*	26
2	30	5 [▲]	25
3	28	6	24

SOLDER CUP

Omit for Standard Solder Cup	
------------------------------	--

* M83513 Standard
▲ Solid Wire Only

Wire Type 6

GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 7

Omit for Solder Cup	
1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1st 10 Colors black thru white, repeated (M83513 STD) Off shelf

Wire Length – Dimensions in inches 8

Omit for Solder Cup	
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory 9

Metric Codes Available

JACKPOSTS		
P	Standard Jackpost	
REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA	Hex	.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD		.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027"-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

MOUNTING HOLE

B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

JACKSCREWS

M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head

Hardware — Pre-installed by factory 9

Metric Codes Available

Continued

L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew
FLOAT MOUNT	
F	Forward Float Mount
R	Reverse Float Mount

Non-Standard Length Code 10

Dimensions in inches

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110=.110" 999=.999"

FOR MORE INFORMATION

GENERAL INQUIRIES
✉ sales@amphenolcanada.com
☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

PART NUMBER KEY



Series 1
MDH High Temperature Micro-D

MDH Level / Shell Material 2

LEVEL 1

1	Standard (Passivated Stainless Steel)
N	Aluminum Shell, Nickel Plated
P	Plastic Shell

Connector Size 3
(Number of contacts)

09	25	51
15	31	69
21	37	100

† Consult factory for dimensions

Connector Type 4

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with EMI Ground Spring

Termination Type 5

CBR	Narrow Right Angle PCB Per M83513 /10 - /15
HBR	High Density CBR
BR	Right angle PCB Per M83513 /16 - /21
BS	Straight PCB Per M83513 /22 - /27
C6	Straight PCB Per M83513 /28 - /33
H6	High Density C6
C16	Straight PCB with Flange (C6 PCB Configuration)
H16	High Density C16

Hardware — Pre-installed by factory 6
Metric Codes Available

Omit for no threaded Insert

MOUNTING HOLE

B*	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

JACKPOSTS

P	Standard Jackpost
---	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 - .037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

FLOAT MOUNT *

F	Forward Float Mount
R	Reverse Float Mount

JACKSCREWS *

M2	Low Profile Jackscrew, Allen Head
----	-----------------------------------

Hardware — Pre-installed by factory 6
Metric Codes Available

Continued

M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

* Only available for C16/H16 terminations and are not pre-installed by Factory

Threaded Insert * 7

Omit for no threaded Insert

T	#2-56 Threaded Insert (Size 9-69)
U	#4-40 Threaded Insert (Size 100 Only)
V	M2 Threaded Insert (Size 9-69)
Z	M3 Threaded Insert (Size 100 Only)

▲ Pre-installed PCB mounting options

Lead Length — Dimensions in inches 8

1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015		
GOLD			
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

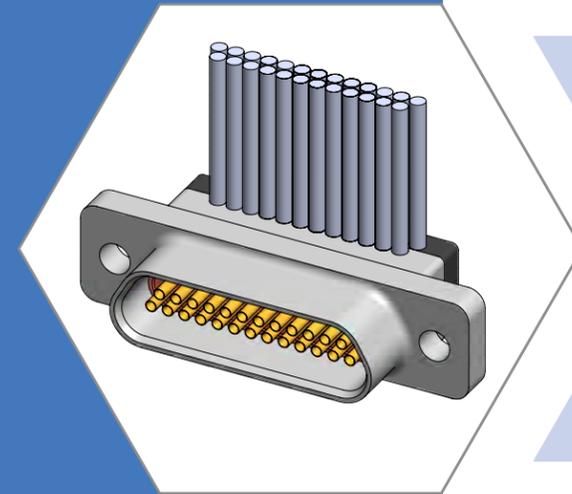
Non-Standard Length Code 9
Dimensions in inches

Stranded Wire	1 = 1.00" 100 = 100.00"
---------------	----------------------------

FOR MORE INFORMATION

GENERAL INQUIRIES
✉ sales@amphenolcanada.com
☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales



Standard Micro-D
Environmental & Material Options
Mechanical & Locking Types
Board-Level Solutions
Filtered & EMI Solutions
Accessories

RIGHT ANGLE WIRES

115 & 116 SERIES

Amphenol's 115 & 116 Series offer a space-saving, pre-wired solution with encapsulated wiring arranged at a right angle to the mating interface—on either the long or short row of contacts. The design retains the standard robust metal shell for RFI/EMI shielding and is available with various plating options, including nickel and cadmium.

Pre-wired, fully potted, 100% tested, and ready for immediate use.

SPECIFICATIONS

Shell	Material	Metal	» Aluminum Alloy » Stainless Steel (Passivated)
	Finish	Metal	» Anodized (Black) » Zinc Nickel (Black Chromate) » Cadmium (Yellow Chromate) » Olive Drab Cadmium
Shell			» Electroless Nickel » Gold » Zinc Nickel - 48 hrs » Nickel fluorocarbon polymer
	Insulator		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent
Contacts	Material		Copper alloy, 50 micro-inches gold plate over nickel
	Spacing		0.050" (1.27mm) centers
	Quantity		9 15 21 25 31 37 51 69 100
Hardware			Stainless steel, passivated
Potting Material	Standard		EP1730-1 or equivalent
	High Temp		EP173859 or equivalent
Wire	Insulated		MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated		Copper per A-A-59551 (QQ-W-343)
Coupling			Friction or Jackscrews into jackposts/threaded Inserts

FEATURES

HARNESSED CONNECTORS

- Space saving right angle exit on either the long or short row
- Metal shells to provide RFI/EMI shielding
- Supplied pre-wired and fully potted

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11	12
E	115	R	N	15	P	3	E	6	F	M2	48

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

115	Right Angle Short Row Exit
116	Right Angle Long Row Exit
145	Right Angle Short Row Exit (Passivated Stainless Steel)
146	Right Angle Long Row Exit (Passivated Stainless Steel)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

Omit for 145 & 146 series

A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69	

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with Ground Spring

Wire Size (AWG) 7

3	28	5+	25
4*	26	6	24

* M83513 Standard
† Solid Wire Only

Wire Type 8

GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 9

1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf

Wire Length – Dimensions in inches 10

A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory Metric Codes Available 11

JACKPOSTS

P	Standard Jackpost
---	-------------------

REAR PANEL MOUNT

P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

MOUNTING HOLE

B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)

Hardware — Pre-installed by factory Metric Codes Available 11

JACKSCREWS

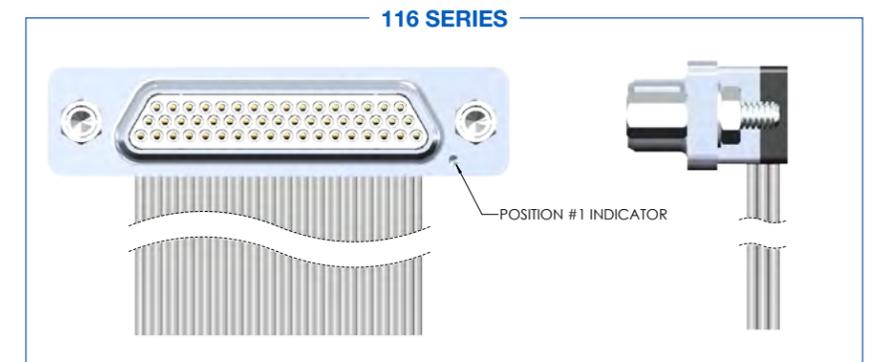
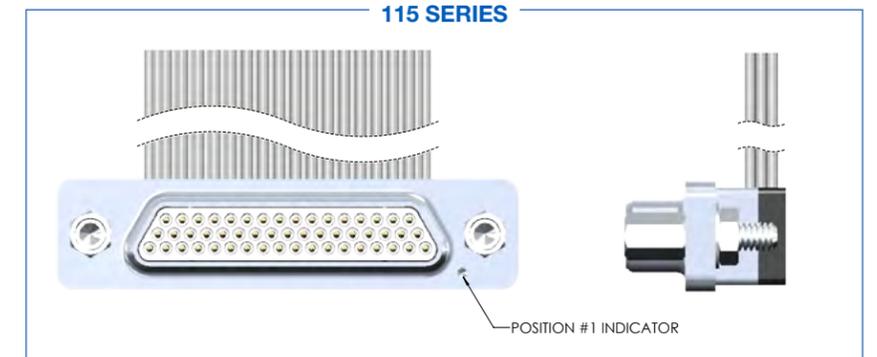
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)
M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew

FLOAT MOUNT

F	Forward Float Mount
R	Reverse Float Mount

Non-Standard Length Code Dimensions in inches 12

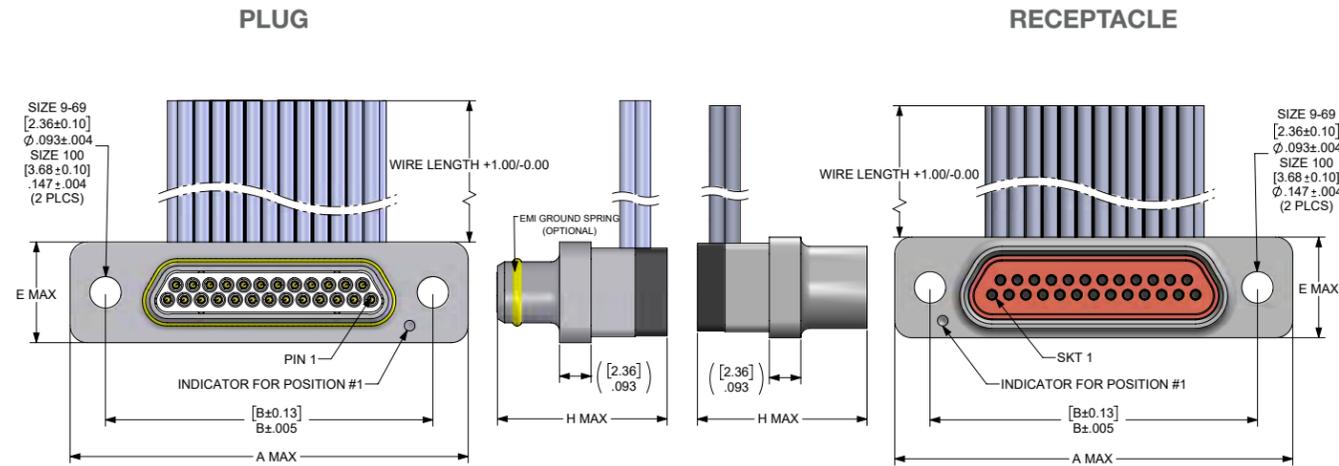
Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110=.110" 999=.999"



FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com
 ☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales



Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	E MAX	H MAX
09	.785 (19.94)	.565 (14.35)	.308 (7.82)	.500 (12.7)
15	.935 (23.75)	.715 (18.16)		
21	1.085 (27.56)	.865 (21.97)		
25	1.185 (30.10)	.965 (24.51)		
31	1.335 (33.91)	1.115 (28.32)		
37	1.485 (37.72)	1.265 (32.13)	.351 (8.92)	.530 (13.46)
51	1.435 (36.45)	1.215 (30.86)		
69	1.735 (44.07)	1.515 (38.48)		
100	2.170 (55.12)	1.800 (45.72)	.394 (10.01)	.550 (13.97)



INTEGRATED SHELL MICRO-D 119 SERIES

- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types**
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

The 119 Series features integrated backshell construction. This is a cost-effective solution for the traditional Micro-D plus backshell option, while still maintaining all electrical performance parameters

FEATURES

HARNESSED CONNECTORS

- Fully intermateable with existing M83513 connectors
- One-piece shell construction
- Lower cost than traditional Micro-D + backshell
- Available in all standard wire options
- Identical electrical performance of conventional M83513 design

SPECIFICATIONS

Shell	Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Finish	Metal	» Anodized (Black) » Cadmium (Black Chromate) » Gold » Electroless Nickel » Zinc Nickel - 48 hrs » Nickel fluorocarbon polymer
Insulator	Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent		
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel	
	Spacing	0.050" (1.27mm) centers	
	Quantity	9 15 21 25 31 37 51 69 100	
Hardware	Stainless steel, passivated		
Potting Material	Standard	EP1730-1 or equivalent	
	High Temp	EP173859 or equivalent	
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33	
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)	
Coupling	Friction or Jackscrews into jackposts/threaded Inserts		

PART NUMBER KEY

1	2	3	4	5	6	-	7	8	9	10	11	-	12
E	119	R	N	21	S		6	A	4	F	P		10

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

119	Standard Integrated Backshell
149	Standard Integrated Backshell (Passivated Stainless Steel)
143	O-Ring Integrated Backshell (Passivated Stainless Steel)
115B	Right Angle Integrated Backshell (exit to short row)
116B	Right Angle Integrated Backshell (exit to long row)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
----------	-------------------------------

Shell Finish 4

Omit for 149 & 143 series

A	Anodized (Black)
C	Cadmium (Yellow Chromate)
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	21	31	51	100
15	25	37	69	

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with EMI Ground Spring

Wire Size (AWG) 7

3[†]	28	5[▲]	25
4[*]	26	6	24

[†] Exclusive to 15B/116B Series
^{*} M83513 Standard
[▲] Solid Wire Only / Unavailable for 115B/116B Series

Wire Type 8

GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Color / Finish 9

1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf

Wire Length – Dimensions in inches 10

A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

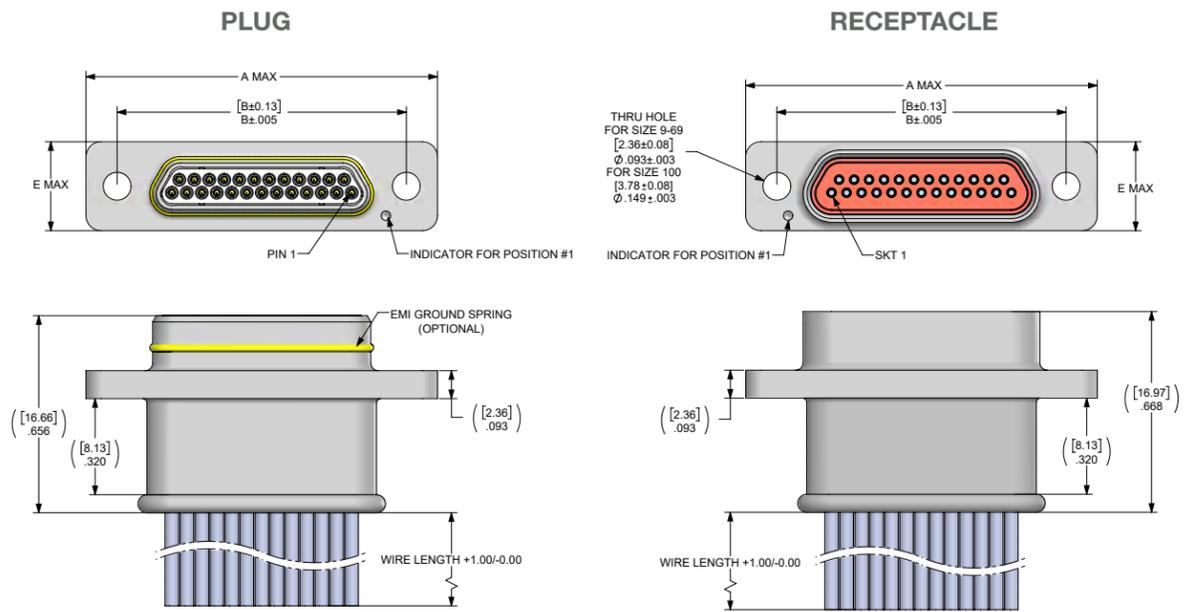
Hardware — Pre-installed by factory Metric Codes Available 11

B[□]	Standard Mounting Holes
P	Jackpost
M2	Low Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head

[□] Unavailable for 115B/116B Series

Non-Standard Length Code Dimensions in inches 12

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110 = .110" 999 = .999"



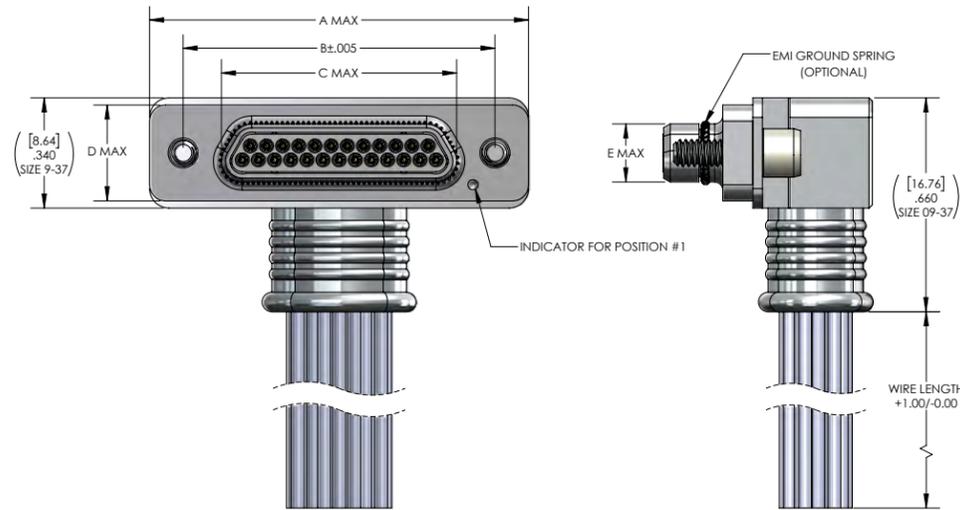
Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	E MAX
09	.785 (19.94)	.565 (14.35)	.308 (7.82)
15	.935 (23.75)	.715 (18.16)	
21	1.085 (27.56)	.865 (21.97)	
25	1.185 (30.10)	.965 (24.51)	
31	1.335 (33.91)	1.115 (28.32)	
37	1.485 (37.72)	1.265 (32.13)	.351 (8.92)
51	1.435 (36.45)	1.215 (30.86)	
69	1.735 (44.07)	1.515 (38.48)	
100	2.170 (55.12)	1.800 (45.72)	.394 (10.01)

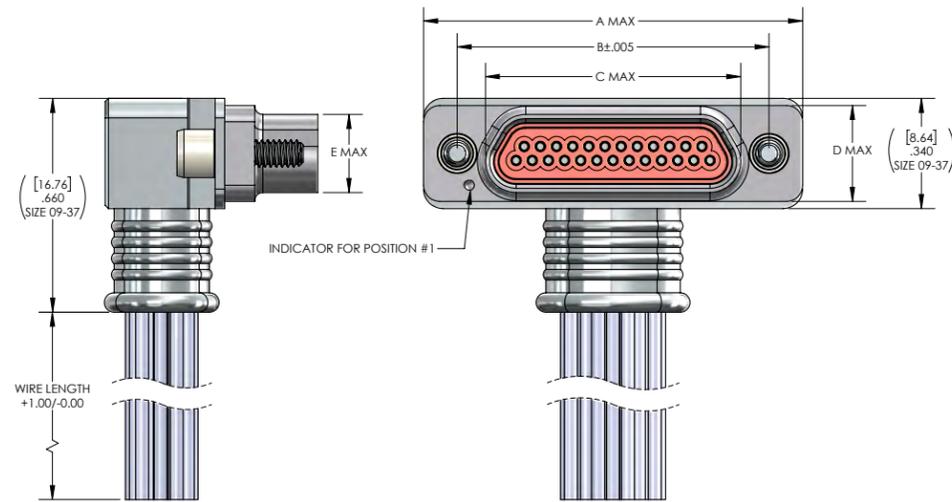
Only applicable for Standard Integrated Backshell Connectors

RIGHT ANGLE INTEGRATED BACKSHELL — 115B & 116B SERIES

PLUG

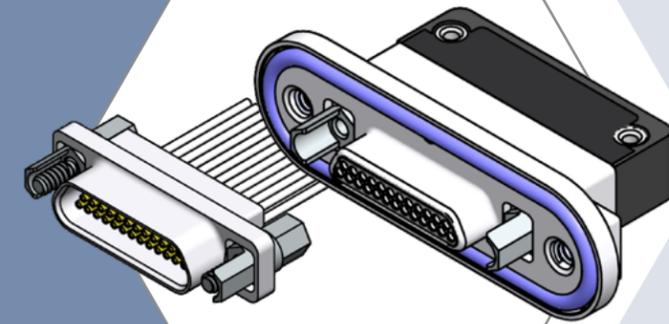


RECEPTACLE



Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C MAX		D MAX	E MAX	
			PLUG	RCPT		PLUG	RCPT
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)			
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)			
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)			
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)			
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)			
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)	.308 (7.82)	.185 (4.70)	.253(6.43)
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)			
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.357 (34.47)			
100	2.170 (55.12)	1.800 (45.72)	1.384 (35.13)	1.452 (36.88)			



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types**
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

KEYED HARDWARE MICRO-D K (KEYED) SERIES

Amphenol's "K" Series connectors offers interconnect solutions with customizable keying, complemented by a range of hardware options. Achieve compact, high-performance mating for your connectivity requirements.

FEATURES

HARNESSED CONNECTORS

- Customer-modifiable keying for dense interconnect applications
- Hardware keying options for all series, offering compact and configurable mating

PCB CONNECTORS

- Available in straight and right angle termination style
- Solid copper 24 AWG PCB leads, Tin plated, and solder dipped

SPECIFICATIONS

Wire	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Plastic	Polyphenylene Sulfide (Ryton)
Insulator / PCB Backshell	Polyphenylene sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Copper alloy, 50 micro-inches gold plate over nickel	
Hardware	Stainless steel, passivated	
Potting Material	Standard	EP1730-1 or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling	Friction or Jackscrews into jackposts/threaded Inserts	
Contact Spacing	.050 (1.27) centers	
Contact Termination	Multiple indent crimp	

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Wire Size (AWG)	Wire Type	Wire Finish	Wire Length	Hardware	Non-Standard Length Code	Hardware Keying
1 E	2 1K0	3 R	4 N	5 25	6 P	7 4	8 A	9 5	10 F	11 P	12 48	13 XX

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

1K0	Metal Shell Per M83513
1K2	Plastic Shell (Dimensionally identical to 100 series)
1K4	Passivated Stainless Steel (Dimensionally identical to 100 series)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 1K2 & 1K4 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	25	51
15	31	69 [▲]
21	37	100

[▲] Non-military spec. (I.A.W M83513)

Note: For detailed connector dimensions, please contact the factory directly.

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Facesal Excluded
G	Plug with Ground Spring

Wire Size (AWG) 7

1	32	4	26 (M83513)
2	30	5 [†]	25
3	28	6	24
SOLDER CUP			
	Omit for Standard Solder Cup	7	Special 24 AWG

[†] Solid Wire Only

Wire Type 8

	Omit for Standard Solder Cup
GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Finish (Color) 9

	Omit for Solder Cup
1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf
7	1 st 15 colors black thru white/Yellow Repeated (Size 21+ Only)
8	Twisted Pairs, White/Blue
9	Twisted Pairs, White/Blue, Marked

Wire Length – Dimensions in inches 10

	Omit for Standard Solder Cup
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Hardware — Pre-installed by factory 11

Metric Codes Available

	Omit for no threaded Insert
MOUNTING HOLE	
B	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)

Hardware — Pre-installed by factory 11

Metric Codes Available

Continued

JACKSCREWS	
M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
L	Captive Low Profile Jackscrew
K	Captive High Profile Jackscrew
JACKPOSTS	
P	Standard Jackpost

REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

FLOAT MOUNT	
F	Forward Float Mount
R	Reverse Float Mount

Non-Standard Length Code 12

Dimensions in inches

Stranded Wire	1 = 1.00"	100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110 = .110"	999 = .999"

Hardware Keying 13

XX	Standard
A00	Alternate Keying

PART NUMBER KEY

1	2	3	4	5	6	7	8	9	10	11	12
E	1K0	R	N	25	P	BR	P	T	F	125	XX

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

1K0	Metal Shell Per M83513
1K2	Plastic Shell (Dimensionally identical to 100 SERIES)
1K4	Passivated Stainless Steel (Dimensionally identical to 100 SERIES)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 1K2 & 1K4 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	25	51
15	31	69*
21	37	100

* Non-military spec. (I.A.W M83513)

Note: For detailed connector dimensions, please contact the factory directly.

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

Termination Type Other Types Available 7

CBR	Narrow Right Angle PCB Per M83513 /10 - /15
HBR	High Density CBR
BR	Right angle PCB Per M83513 /16 - /21
BS	Straight PCB Per M83513 /22 - /27
C6	Straight PCB Per M83513 /28 - /33
H6	High Density C6
C16	Straight PCB with Flange (C6 PCB Configuration)
H16	High Density C16

Hardware — Pre-installed by factory Metric Codes Available 8

	Omit for no threaded Insert
MOUNTING HOLE	
B*	Standard Mounting Holes
H	Threaded Mounting Hole #2-56 (Size 9-69), #4-40 (Size 100)
D	Metric Threaded Mounting Hole M2 (Size 9-96), M3 (Size 100)
JACKSCREWS *	
M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head

Hardware — Pre-installed by factory Metric Codes Available 8

Continued

L	Captive Low Profile Jackscrew	
K	Captive High Profile Jackscrew	
JACKPOSTS		
P	Standard Jackpost	
REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 - .037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)
FLOAT MOUNT *		
F	Forward Float Mount	
R	Reverse Float Mount	

* Only available for C16/H16 terminations and are not pre-installed by Factory

Threaded Insert * 9

	Omit for no threaded Insert
T	#2-56 Threaded Insert (Size 9-69)
U	#4-40 Threaded Insert (Size 100 Only)
V	M2 Threaded Insert (Size 9-69)
Z	M3 Threaded Insert (Size 100 Only)

* Pre-installed PCB mounting options

Lead Length – Dimensions in inches 10

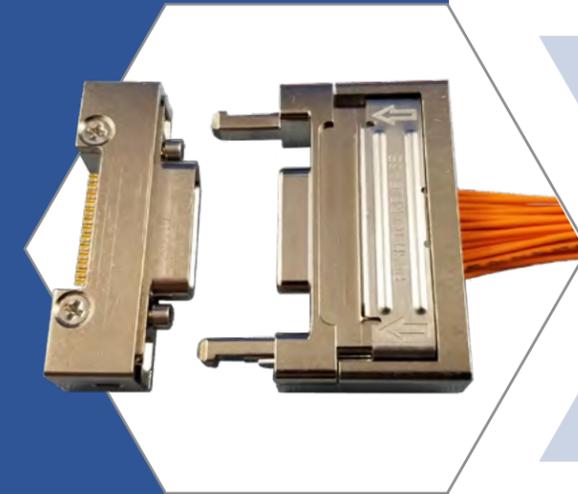
1	.109 ± .015	4	.250 ± .015
2	.140 ± .015	F	Non Standard Length
3	.172 ± .015	GOLD	
5	.109 ± .015	8	.250 ± .015
6	.140 ± .015	G	Non Standard Length
7	.172 ± .015		

Non-Standard Length Code Dimensions in inches 11

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire (0.109" < Length < 1.00")	110 = .110" 999 = .999"

Hardware Keying 12

XX	Standard
A00	Alternate Keying



Standard Micro-D
Environmental & Material Options
Mechanical & Locking Types
Board-Level Solutions
Filtered & EMI Solutions
Accessories

ClickMate SERIES LATCHING STANDARD

Our latest innovation for the micro-D interconnect product line, the ClickMate is ready to include today as part of your mission-critical requirements.

FEATURES

HARNESSED CONNECTORS

- Rugged, reliable, and durable
- Solid mating with audible latch confirmation
- Available polarized options for dense connector panel arrangements
- Push action clip release prevents inadvertent unmating in the field

SPECIFICATIONS

Wire	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Plastic	Polyphenylene Sulfide (Ryton)
Insulator	Polyphenylene sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Copper alloy, 50 micro-inches gold plate over nickel	
Hardware	Stainless steel, passivated	
Potting Material	Standard	EP1730-1 or equivalent
	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling	Friction or Jackscrews into jackposts/threaded Inserts	
Contact Spacing	.050 (1.27) centers	
Contact Termination	Multiple indent crimp	

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Wire Size (AWG)	Wire Type	Wire Finish	Wire Length	Hardware	Non-Standard Length Code
1 E	2 1L0	3 R	4 N	5 25	6 P	7 4	8 A	9 5	10 F	11 P	12 48

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

1L0	Metal Shell Per M83513
1L4	Passivated Stainless Steel (Dimensionally identical to 100 series)

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Shell Finish 4

	Omit for 1L4 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts) 5

09	25	51
15	31	69*
21	37	100

* Non-military spec. (I.A.W M83513)

Note: For detailed connector dimensions, please contact the factory directly.

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

Wire Size (AWG) 7

1	32	4*	26 (M83513)
2	30	5*	25
3	28	6	24
SOLDER CUP			
	Omit for Standard Solder Cup	7	Special 24 AWG

* M83513 Standard
* Solid Wire Only

Wire Type 8

	Omit for Standard Solder Cup
GENERAL APPLICATIONS	
A	7 Strand per NEMA-HP3 (MIL-W-16878/4)
B	7 Strand per NEMA-HP3 (Formerly MIL-W-16878/6)
C	19 Strand Per NEMA-HP3 (MIL-W-16878/4)
D	19 Strand Per NEMA-HP3 (MIL-W-16878/6)
MILITARY APPLICATIONS	
E	Per MIL-W-22759/11 (M83513 Standard)
F	Per MIL-W-22759/33 (Space Grade)
L	Solid Wire Uninsulated
G	04035-26A

Wire Finish (Color) 9

	Omit for Solder Cup
1	All White (M83513 STD) - Off Shelf
2	All Yellow
3	Solid Wire Uninsulated, Tin Plated
4	Solid Wire Uninsulated, Gold Plated
5	Color coded per Mil-STD-681, System 1
6	1 st 10 Colors black thru white, repeated (M83513 STD) Off shelf
7	1 st 15 colors black thru white/Yellow Repeated (Size 21+ Only)
8	Twisted Pairs, White/Blue
9	Twisted Pairs, White/Blue, Marked

Wire Length – Dimensions in inches 10

	Omit for Standard Solder Cup
A	18.00 (+1.00/-0.00)
B	36.00 (+1.00/-0.00)
C	72.00 (+1.00/-0.00)
D	.500 (Solid Wire Only +0.20/-0.00)
E	1.00 (Solid Wire Only +0.20/-0.00)
F	Non-Standard Length

Latching Hardware Pre-installed by factory 11

A	Latching Posts
V	Latching Clip / Cavity

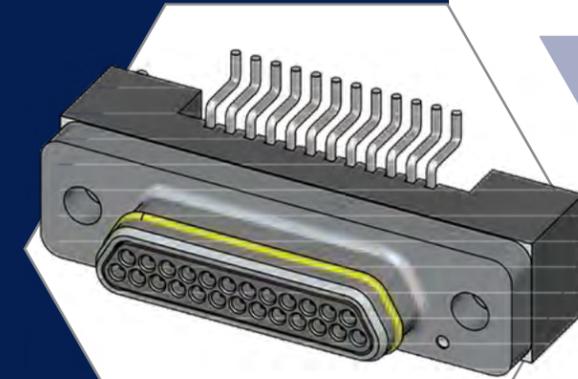
Non-Standard Length Code Dimensions in inches 12

Stranded Wire	1 = 1.00" 100 = 100.00"
Solid Wire	110=.110" (0.109" < Length < 1.00") 999=.999"

FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com
 ☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions**
- Filtered & EMI Solutions
- Accessories

SURFACE MOUNT MICRO-D SMT SERIES

Amphenol Canada micro-D solutions for surface mount terminations (SMT) are available in multiple configurations to support all kinds of PCB interconnect requirements. These connectors feature precision tail location and compact design to support board interfaces for micro-D interconnectivity.

FEATURES

HARNESSED CONNECTORS

- Supplied pre-wired and fully potted
- Plastic and metal shells are intermateable and intermountable
- Metal shells to provide RFI/EMI shielding

PCB CONNECTORS

- Available in straight and right angle termination style
- Solid copper 24 AWG PCB leads, Tin plated, and solder dipped

SPECIFICATIONS

Wire	Metal	» Aluminum alloy » Stainless Steel (Passivated)
	Plastic	Polyphenylene Sulfide (Ryton)
Insulator / PCB Backshell	Polyphenylene sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Copper alloy, 50 micro-inches gold plate over nickel	
Hardware	Stainless steel, passivated	
Potting	Standard	EP1730-1 or equivalent
Material	High Temp	EP173859 or equivalent
Wire	Insulated	MIL-W-16878/4 or /6 (available 7 or 19 strands) MIL-W-22759/11 or /33
	Solid Uninsulated	Copper per A-A-59551 (QQ-W-343)
Coupling	Friction or Jackscrews into jackposts/threaded Inserts	
Contact Spacing	.050 (1.27) centers	
Contact Termination	Multiple indent crimp	

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Termination Type	Hardware
1 E	2 100	3 R	4 N	5 25	6 P	7 BM	8 P

RoHS Compliance	
E	RoHS Compliant
	Blank for Non-RoHS

Series	
100	Metal Shell Per M83513
104	Passivated Stainless Steel (Dimensionally identical to 100 SERIES)

Insulator Material	
R	Polyphenylene Sulfide (Ryton)

Shell Finish	
Omit for 104 series	
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

Connector Size (Number of contacts)				
09	21	35	51*	
15	25	37		

* 2 Row Only

Connector Type	
P	Plug
S	Receptacle
R	Receptacle with Faceseal Excluded
G	Plug with Ground Spring

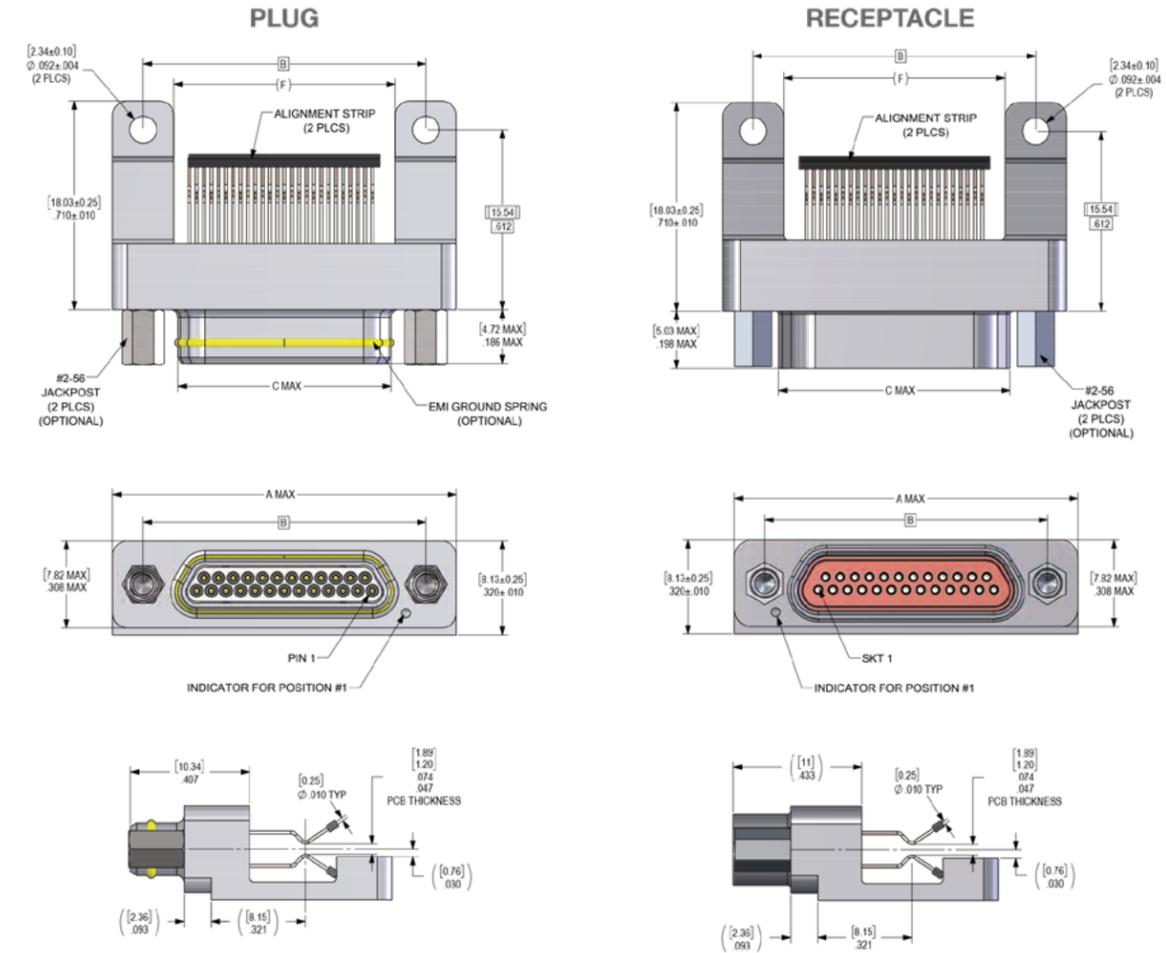
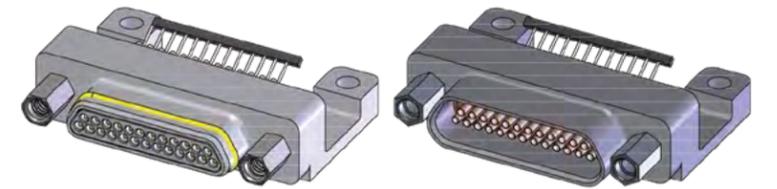
Termination Type (Other Types Available)	
CE	Card Edge Surface Mount
HM	Horizontal Surface Mount
VM	Vertical Surface Mount
BM	Vertical Surface Mount (BS Style)

Hardware — Pre-installed by factory (Metric Codes Available)

MOUNTING HOLE	
B	Standard Mounting Holes
JACKSCREWS	
M2	Low Profile Jackscrew, Allen Head
M3	High Profile Jackscrew, Allen Head
M5	Low Profile Jackscrew, Slot Head
M6	High Profile Jackscrew, Slot Head
JACKPOSTS	
P	Standard Jackpost

REAR PANEL MOUNT		
P/N	Head Style	Panel Thickness
PA		.027 - .037" (.68 - .94 mm)
PB		.042 - .052" (1.06 - 1.32 mm)
PC		.057 - .067" (1.45 - 1.70 mm)
PD	Hex	.088 - .098" (2.24 - 2.49 mm)
PE		.075 - .085" (1.91 - 2.16 mm)
PF		.120 - .130" (3.05 - 3.30 mm)
PG		.067 - .077" (1.70 - 1.96 mm)
SA		.027 "-.037" (.68 - .94 mm)
SB		.042 - .052" (1.06 - 1.32 mm)
SC		.057 - .067" (1.45 - 1.70 mm)
SD	Slot	.088 - .098" (2.24 - 2.49 mm)
SE		.075 - .085" (1.91 - 2.16 mm)
SF		.120 - .130" (3.05 - 3.30 mm)
SG		.067 - .077" (1.70 - 1.96 mm)

CE TERMINATION CARD EDGE SURFACE MOUNT



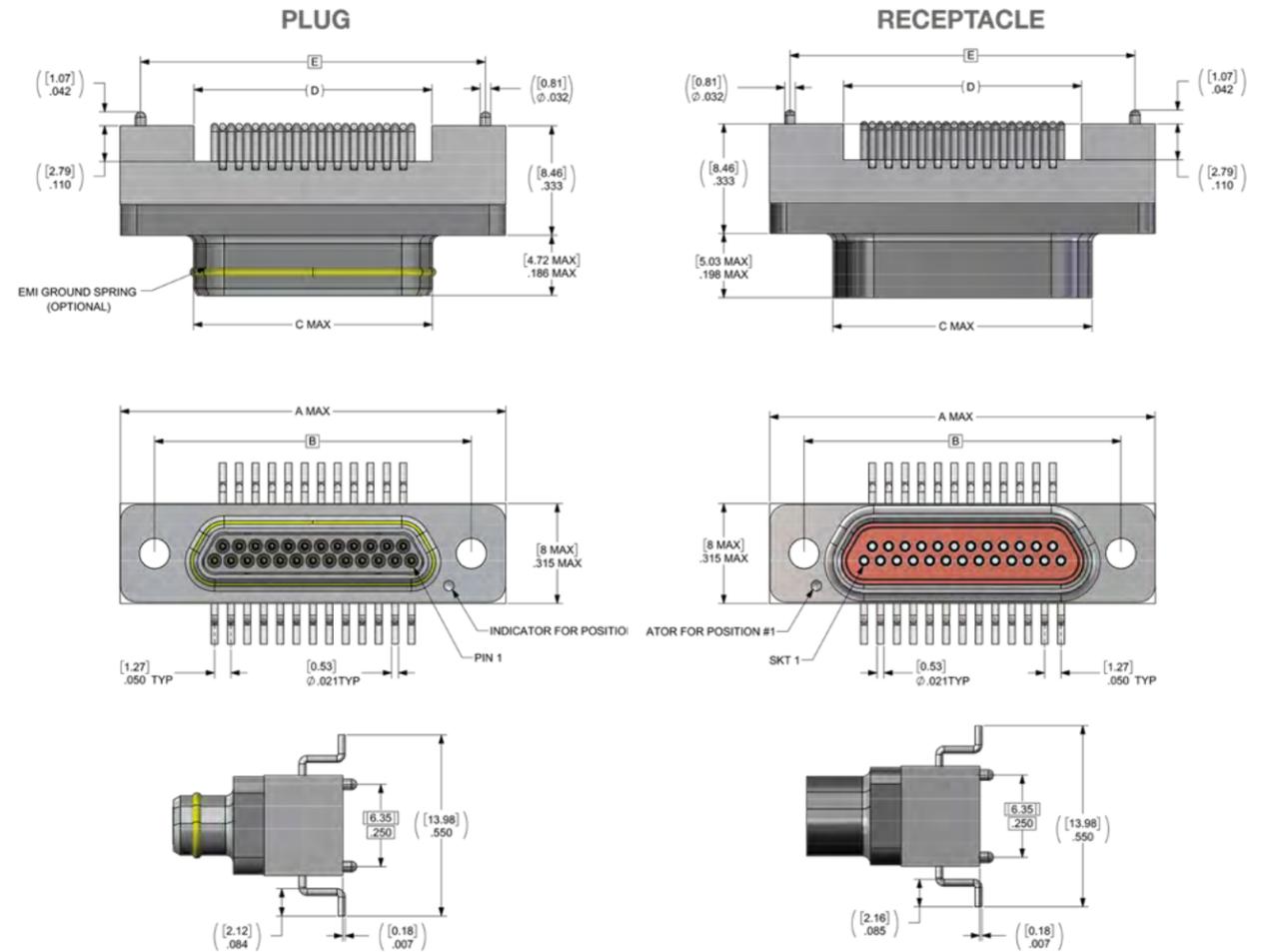
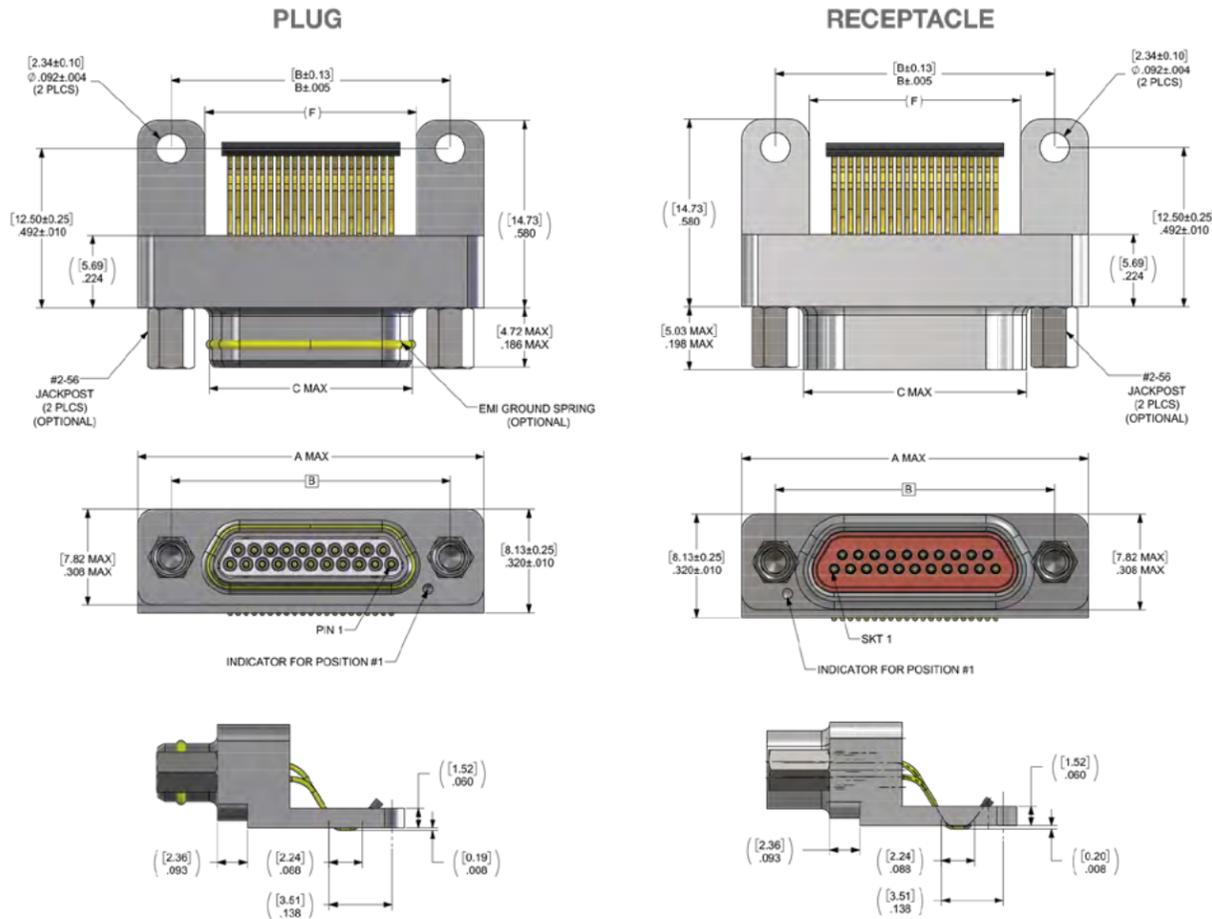
Dimensions are in inch (mm)

SIZE	A MAX	B	C MAX		F Ref.
			PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.402 (10.21)	.334 (8.48)	.355 (9.02)
15	.935 (23.75)	.715 (18.16)	.552 (14.02)	.484 (12.29)	.505 (12.83)
21	1.085 (27.56)	.865 (21.97)	.702 (17.83)	.634 (16.10)	.655 (16.64)
25	1.185 (30.10)	.965 (24.51)	.802 (20.37)	.734 (18.64)	.755 (19.18)
31	1.335 (33.91)	1.115 (28.32)	.952 (24.18)	.884 (22.45)	.905 (22.99)
37	1.485 (37.72)	1.265 (32.13)	1.102 (27.99)	1.034 (26.26)	1.055 (26.80)
51-2	1.835 (46.61)	1.615 (41.02)	1.452 (36.88)	1.384 (35.15)	1.405 (35.69)

HM TERMINATION
HORIZONTAL
SURFACE MOUNT



VM TERMINATION
VERTICAL
SURFACE MOUNT



Dimensions are in inch (mm)

Dimensions are in inch (mm)

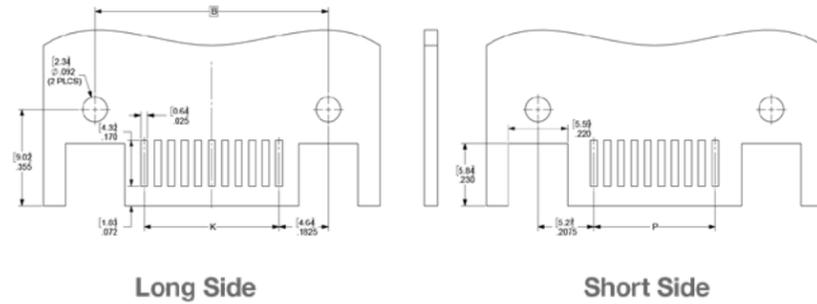
SIZE	A MAX	B	C MAX		F Ref.
			PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.402 (10.21)	.334 (8.48)	.355 (9.02)
15	.935 (23.75)	.715 (18.16)	.552 (14.02)	.484 (12.29)	.505 (12.83)
21	1.085 (27.56)	.865 (21.97)	.702 (17.83)	.634 (16.10)	.655 (16.64)
25	1.185 (30.10)	.965 (24.51)	.802 (20.37)	.734 (18.64)	.755 (19.18)
31	1.335 (33.91)	1.115 (28.32)	.952 (24.18)	.884 (22.45)	.905 (22.99)
37	1.485 (37.72)	1.265 (32.13)	1.102 (27.99)	1.034 (26.26)	1.055 (26.80)
51-2	1.835 (46.61)	1.615 (41.02)	1.452 (36.88)	1.384 (35.15)	1.405 (35.69)

SIZE	A MAX	B	C MAX		F Ref.
			PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.402 (10.21)	.334 (8.48)	.355 (9.02)
15	.935 (23.75)	.715 (18.16)	.552 (14.02)	.484 (12.29)	.505 (12.83)
21	1.085 (27.56)	.865 (21.97)	.702 (17.83)	.634 (16.10)	.655 (16.64)
25	1.185 (30.10)	.965 (24.51)	.802 (20.37)	.734 (18.64)	.755 (19.18)
31	1.335 (33.91)	1.115 (28.32)	.952 (24.18)	.884 (22.45)	.905 (22.99)
37	1.485 (37.72)	1.265 (32.13)	1.102 (27.99)	1.034 (26.26)	1.055 (26.80)
51-2	1.835 (46.61)	1.615 (41.02)	1.452 (36.88)	1.384 (35.15)	1.405 (35.69)

CE TERMINATION CARD EDGE SURFACE MOUNT

Dimensions are in inch (mm)

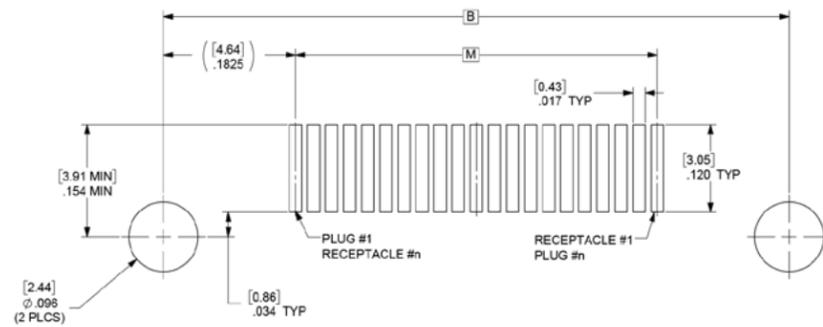
SIZE	B	K	P
09	.565 (14.35)	.200 (5.08)	.150 (3.81)
15	.715 (18.16)	.350 (8.89)	.300 (7.62)
21	.865 (21.97)	.500 (12.70)	.450 (11.43)
25	.965 (24.51)	.600 (15.24)	.550 (13.97)
31	1.115 (28.32)	.750 (19.05)	.700 (17.78)
37	1.265 (32.13)	.900 (22.86)	.850 (21.59)
51-2	1.615 (41.02)	1.25 (35.75)	1.20 (30.48)



HM TERMINATION HORIZONTAL SURFACE MOUNT

Dimensions are in inch (mm)

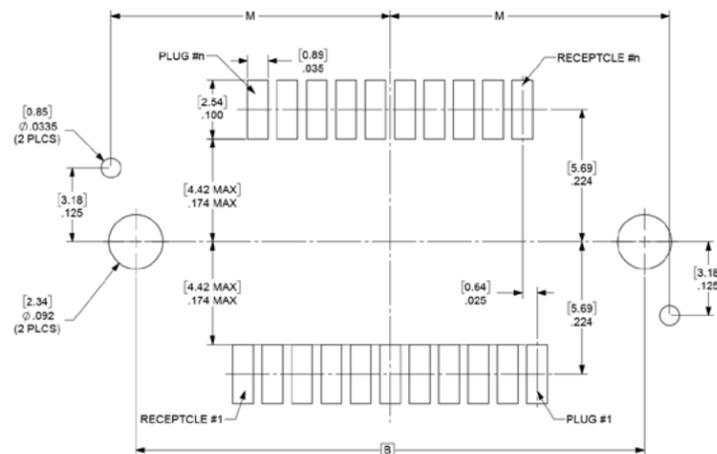
SIZE	B	M
09	.565 (14.35)	.200 (5.08)
15	.715 (18.16)	.350 (8.89)
21	.865 (21.97)	.500 (12.70)
25	.965 (24.51)	.600 (15.24)
31	1.115 (28.32)	.750 (19.05)
37	1.265 (32.13)	.900 (22.86)
51-2	1.615 (41.02)	1.25 (35.75)



VM TERMINATION VERTICAL SURFACE MOUNT

Dimensions are in inch (mm)

SIZE	B	M
09	.565 (14.35)	.325 (8.26)
15	.715 (18.16)	.400 (10.16)
21	.865 (21.97)	.475 (12.07)
25	.965 (24.51)	.525 (13.34)
31	1.115 (28.32)	.600 (15.24)
37	1.265 (32.13)	.675 (17.15)
51-2	1.615 (41.02)	.850 (21.59)





- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions**
- Filtered & EMI Solutions
- Accessories

Micro **C** SERIES

SOLDERLESS SURFACE MOUNT

FEATURES

PCB CONNECTORS

- Unique "compression termination" using patented Amphenol surface mount clip technology
- Fully intermateable with standard M83513 connectors
- Reduced footprint and increased contact density
- Eliminates the need for washing and soldering processes saving time and cost in PCB assembly
- Ideal "zero" force replacement to traditional press-fit termination
- Available with precision-stamped pins or new twist pin options

The **Micro C** Series presents a solderless surface mount solution, offering a reduced footprint and enhancing PCB assembly time and cost efficiency. It makes these connectors ideal for a wide range of applications, from standard to space-grade settings:

SPECIFICATIONS

Shell	Material	Metal	» Aluminum alloy » Stainless Steel (Passivated)
		Plastic	Polyphenylene Sulfide (Ryton)
	Finish	Metal	» Anodized (Black)
» Cadmium (Black Chromate)			» Zinc Nickel
» Gold			» Nickel fluorocarbon polymer
Insulator / PCB Backshell		Polyphenylene Sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	
Contacts	Material	Copper alloy, 50 micro-inches gold plate over nickel	
	Spacing	0.050" (1.27mm) centers	
	Quantity	9 15 21 25 31 37 51A	
Hardware		Stainless steel, passivated	
Potting Material	Standard	EP1730-1 or equivalent; or equivalent	
	High Temp	EP173859 or equivalent	
Coupling		Friction or Jackscrews into jackposts/threaded Inserts	

PERFORMANCE

D.W.V	500 VAC / No DWV required after humidity
I.R.	1000 MΩ
Current Rating	3A
Shock	50 G Half-Sine
Vibration	50 to 2000 Hz Peak: 10gr/axis for 45 min
Temperature Rating	-55°C to +125°C
Humidity	2000 hrs total - from 25° C at 80% to 80°C at 47% RH (2hrs each temp.)

PART NUMBER KEY

RoHS Compliance	Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Termination Type	Hardware	Board Mounting
1 E	2 100	3 R	4 N	5 25	6 P	7 VC	8 P	9 T

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Connector Size (Number of contacts) 5

09	21	31	51A*
15	25	37	

* 2 row non-military spec size

Series 2

100	Metal Shell Per M83513
101	Low Profile All Plastic Shell per M83513
102	Plastic Shell (Dimensionally identical to 100 series)
104	Passivated Stainless Steel (Dimensionally identical to 100 series)
105	Strip Connector Backshell Series
107	Micro-D Panel Seal (O-Ring) series
108	Low Profile Metal Shell

Connector Type 6

P	Plug
S	Receptacle
R	Receptacle with Face Seal Excluded
G	Plug with Ground Spring

Termination Type 7

VC	Vertical Solderless Surface Mount
HC*	Horizontal Solderless Surface Mount

* Consult factory for dimensions

Insulator Material 3

R	Polyphenylene Sulfide (Ryton)
---	-------------------------------

Hardware — Pre-installed by factory Metric Codes Available 8

P	#2-56 Hex Jackpost
S	#2-56 Slotted Round Jackpost

Shell Finish 4

	Omit for 101, 102 & 104 series
A	Anodized (Black)
B	Zinc Nickel (Black Chromate)
C	Cadmium (Yellow Chromate)
D	Olive Drab Cadmium
F	Chem Film
N	Electroless Nickel
G	Gold
K	Zinc Nickel - 48 Hrs
L	Pure Electro-Deposited Aluminum
T	Nickel fluorocarbon polymer

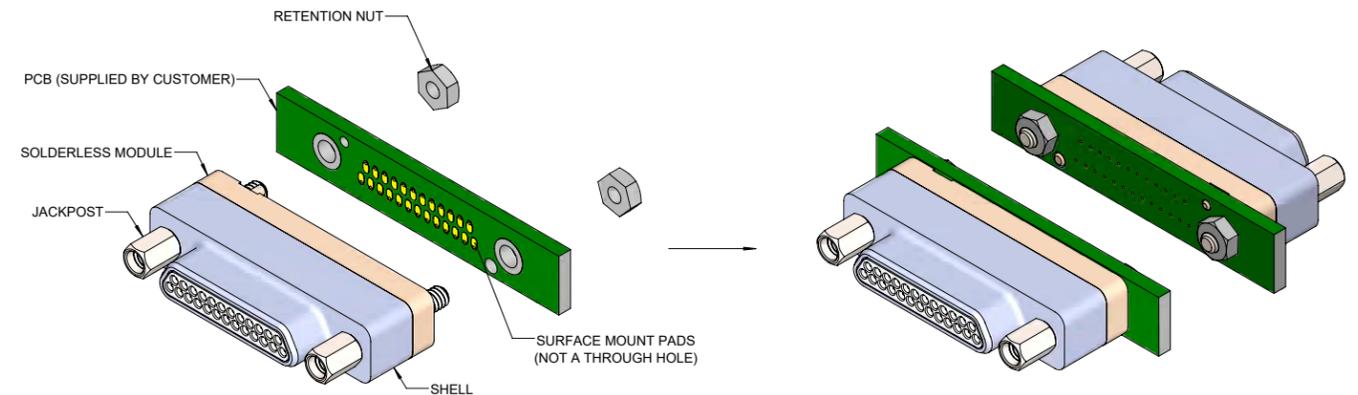
Board Mounting 9

T	#2-56 Threaded Insert
V	M2 Threaded Insert
1	#2-56 Jackpost Length = 0.202 ± 0.015" (5.13 ± 0.38mm)
2	#2-56 Jackpost Length = 0.232 ± 0.015" (5.89 ± 0.38mm)

HANDLING GUIDELINES

As these connectors have delicate contacts, Amphenol advise to follow the below guidelines to ensure its best performance:

- Handle connector by the outer edges being careful to avoid touching the spring contacts
- Do not touch spring contacts with fingers, tools, wipes, or any other devices
- Latex gloves or finger cots must be used when handling and installing connectors. Do not use cotton gloves when handling the connectors.
- Return connectors to their original containers, if removed for incoming inspection purposes.
- Do not expose connectors to liquid or dry chemicals
- For long-term storage, keep the connectors in a clean, dry environment at a temperature between 40° and 80° F (4° - 26.67° C), and 30% - 60% relative humidity

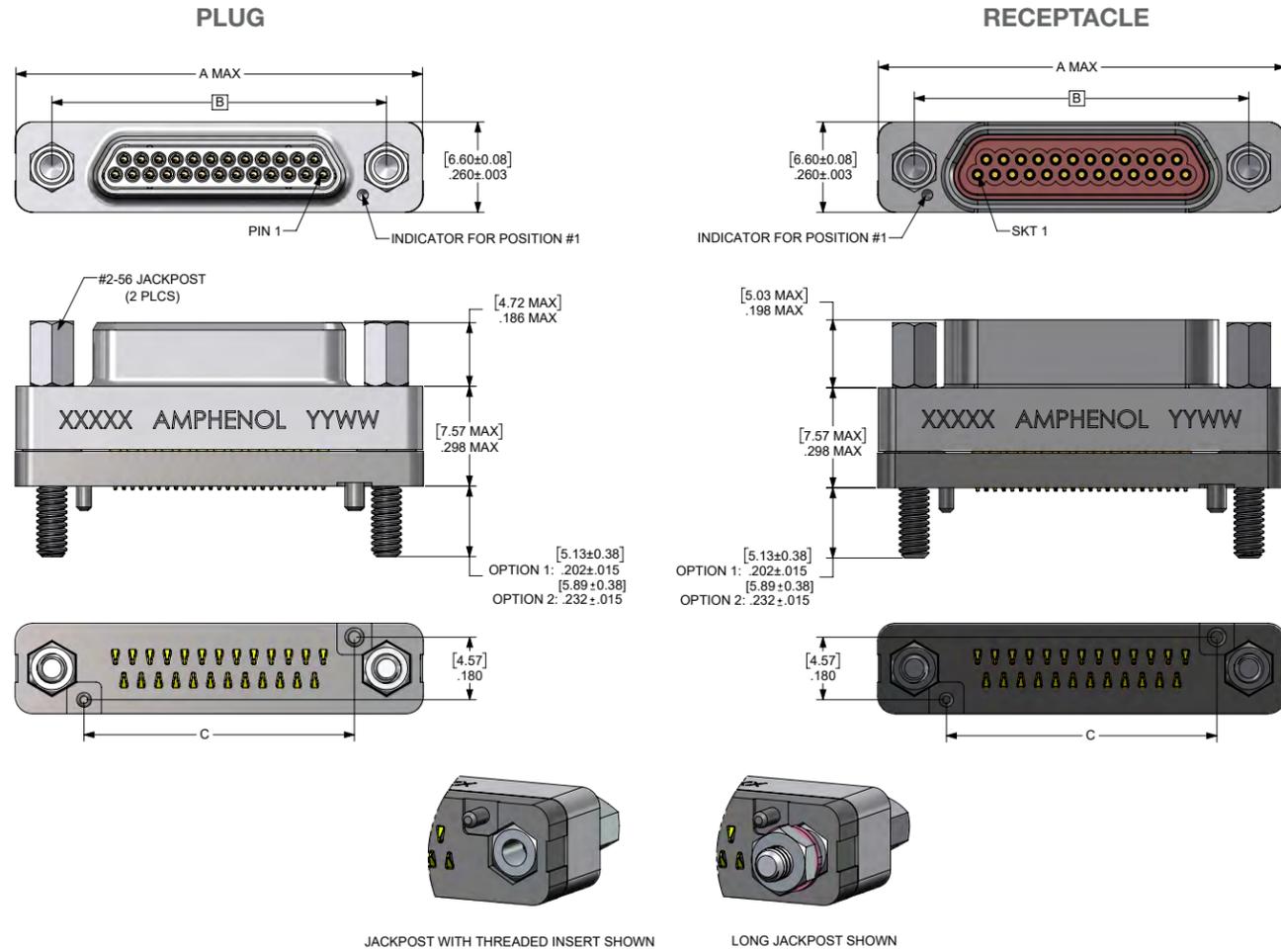


FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com
 ☎ +1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/Sales

VERTICAL
SOLDERLESS SURFACE MOUNT

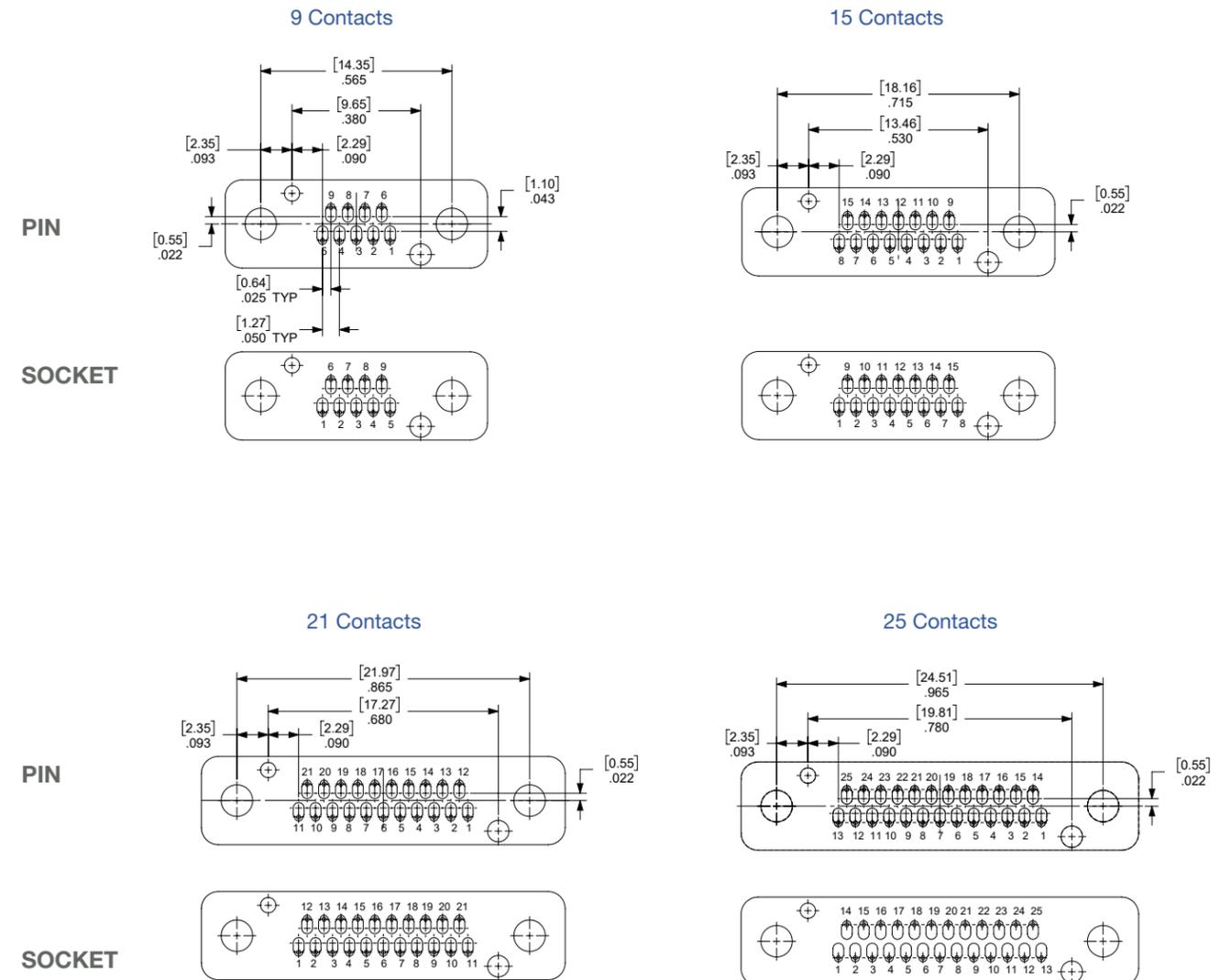


Dimensions are in inch (mm)

SIZE	A MAX	B	C
09	.785 (19.94)	.565 (14.35)	.380 (9.65)
15	.935 (23.75)	.715 (18.16)	.530 (13.46)
21	1.085 (27.56)	.865 (21.97)	.680 (17.27)
25	1.185 (30.10)	.965 (24.51)	.780 (19.81)
31	1.335 (33.91)	1.115 (28.32)	.930 (23.62)
37	1.485 (37.72)	1.265 (32.13)	1.080 (27.43)
51A	1.835 (46.61)	1.615 (41.02)	1.430 (36.32)

VERTICAL SOLDER-LESS SURFACE MOUNT
TERMINATION

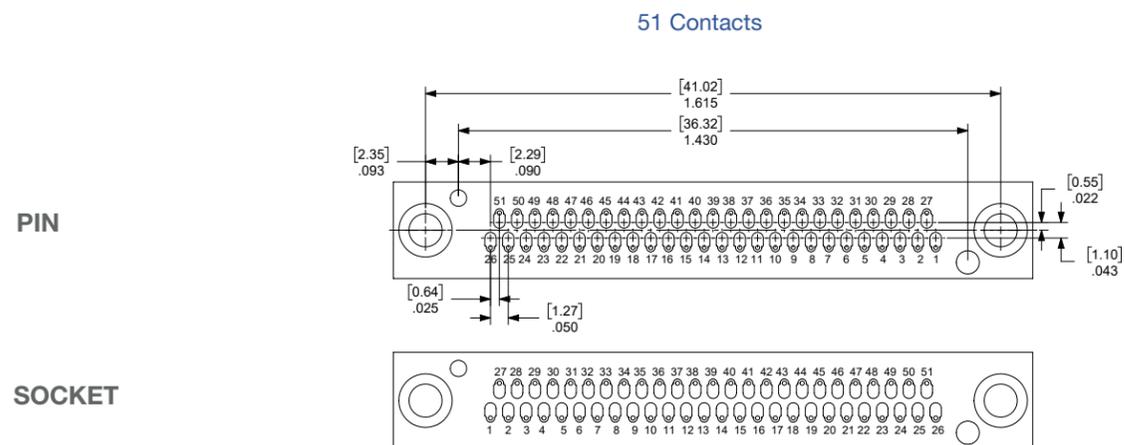
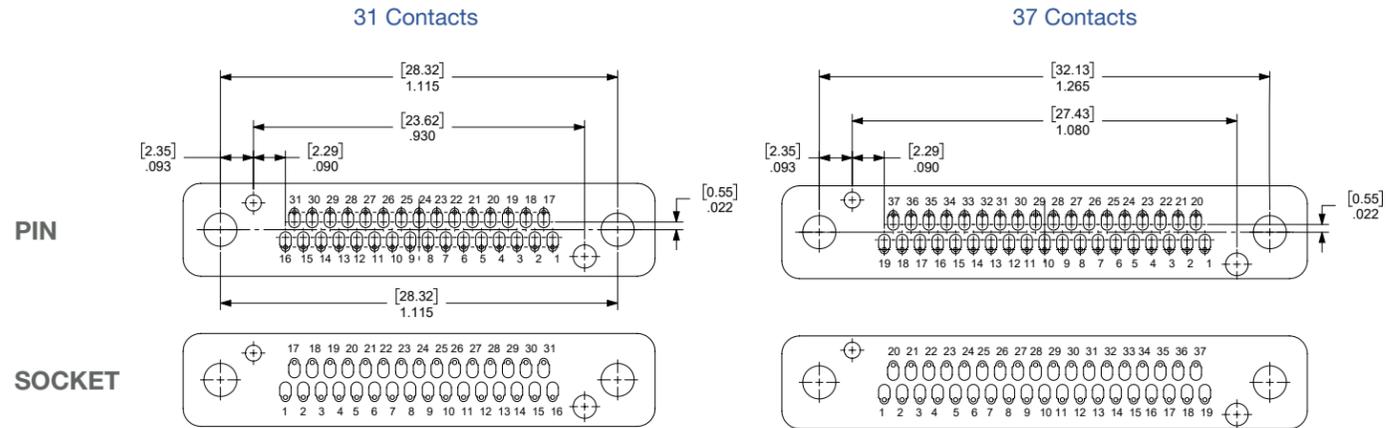
Contact us for more information on the required PCB design details



*Cavity identification numbers are for reference only and does not appear on the connector.

**VERTICAL SOLDER-LESS SURFACE MOUNT
TERMINATION**

Contact us for more information on the required PCB design details





FILTERED MICRO-D M13 SERIES

- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions**
- Accessories

The M13 Series of Filtered Connectors from Amphenol Canada are designed for military and aerospace applications. These connectors integrate monolithic planar capacitors in a rugged, compact package, meeting MIL-DTL-83513 standards for seamless compatibility. Ideal for space-constrained environments, they prioritize reliability, performance, and space optimization.

FEATURES

- Compact and lightweight design ideal for space-constrained applications.
- Integration of monolithic planar capacitors for effective filtering in a small footprint.
- Rugged construction ensures durability in harsh environments.
- High-density packaging facilitates efficient use of space.
- Available in various filter types and mechanical configurations, including wired harnesses and PCB terminations.
- Full intermateability with standard MIL-DTL-83513 connectors for seamless integration into existing systems.

SPECIFICATIONS

Component	Material	Finish
Connector Shell	Aluminum alloy	» Tin
		» Electroless Nickel
Insulator / PCB Backshell	Polyphenylene sulfide (Ryton) per MIL-M-24519, type GST-40F; or equivalent	» Gold
		» Cadmium (Clear Chromate)
Contacts	Pin	Beryllium Copper
	Socket	Copper Alloy
Hardware	300 Stainless steel	50 micro-inches gold over nickel
PCB Terminals	Copper Alloy	50 micro-inches gold over nickel
Capacitors	Planar Ceramic array	» Gold
Inductors	Ferrite	» Solder Dipped
EMI Ground Spring	Beryllium Copper	
Encapsulant	Thermally conductive epoxy	

PART NUMBER KEY

RoHS Compliance	Series	Connector Size	Connector Type	Termination Type	Wire Lead Length	Mounting Style	Insert Option	Filter Type	Filter Value	Plating	Deviation Code
1 E	2 M13	3 21	4 P	5 1	6 P	7 P	8 T	9 C	10 1	11 1	12 000

RoHS Compliance 1

E	RoHS Compliant
	Blank for Non-RoHS

Series 2

M13	Filtered Micro-D Series
-----	-------------------------

Connector Size (Number of contacts) 3

09	21	31
15	25	37

* Non-military spec. (I.A.W M83513)

Connector Type 4

P	Plug (Pin)
S	Receptacle (Socket)
R	Receptacle with Face Seal Excluded

Termination Type 5

Other Types Available

1	Straight PCB - BS
2	Straight PCB - C6
3	Solder Cup
4	Narrow Right Angle PCB - "CBR"
5	Solid Wire Straight
6	Stranded Wire

Wire Lead Length 6

Omit for Solder Cup	
1	0.109" ± 0.015
2	0.140" ± 0.015
3	0.172" ± 0.015
4	0.250" ± 0.015

TERMINATION TYPE 6 INCHES +1.00/-0.00

A	18.00 per M22759/ 11-26 (MIL-STD-681, System 1)
B	36.00 per M22759/ 11-26 (MIL-STD-681, System 1)
C	72.00 per M22759/ 11-26 (MIL-STD-681, System 1)

Mounting Style 7

A	.093" Mounting Hole
B	.125" Mounting Hole
L	Jackpost (Loose)
P	Jackpost (Fixed)

Insert Option 8

Omit if not Used	
T*	Threaded Insert

* PCB Termination Only

Filter Type 9

P	Pi Filter
C	C Filter
R	CLR Filter
L	LRC Filter
T	T Filter
0	Custom or Non-Filtered Equivalent

Filter Value 10

Values are in pF +100% / -0%

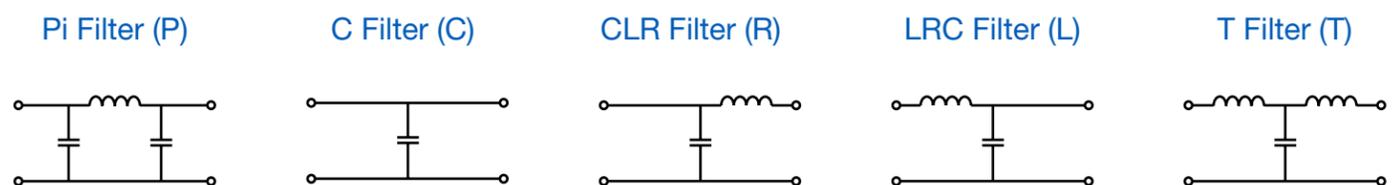
A	200	4	4,000
B	400	8	8,000
C	800	T	10,000
1	1,000	H	16,000
2	2,000	0	Custom Mix. Capacitance

Plating 11

1	Electroless
2	Tin
3	Cadmium (Clear Chromate)
4	Gold
5	Zinc Nickel

Deviation Code 12

000	Standard
XXX	Custom



Filter Circuits	Electrical Characteristics							
Capacitance (pF) at 25° C, 1 kHz and 1.0 VRMS		150 - 300	300 - 500	600 - 1200	1200 - 3200	4000 - 8000	8000 - 16000	
Insertion Loss (dB min.) Per MIL-STD-220 at 25° C and no load	C CLR LRC T	0.1 MHz	-	-	-	-	-	
		1 MHz	-	-	-	-	-	
		10 MHz	-	-	2	5	13	18
		100 MHz	6	12	17	24	33	40
		1000 MHz	25	31	38	43	54	60
Pi	0.1 MHz	-	-	-	-	-	-	
	1 MHz	-	-	-	-	-	3	
	10 MHz	-	-	2	5	13	18	
	100 MHz	7	12	18	26	45	57	
	1000 MHz	30	42	53	60	60	60	
Working Voltage (VDC) at 25° C & sea level		100						
Dielectric Withstanding Voltage (VDC) at 25° C and 50 mA max. charging current		300						
Insulation Resistance (Gohms) at 25° C and working voltage		5						
Contact Current Rating (continuous max. DC amperes)		3						
Filter RF Current Rating (amperes) (max. at any frequency)		0.3						

QUALITY CONFORMANCE INSPECTION

Ensuring the utmost quality and reliability, these connectors undergo rigorous qualification processes adhering to MIL-DTL-83513 standards. Our commitment to excellence is reflected in the comprehensive inspection tests conducted on **all products**:

- **100% Visual and Mechanical Inspections:** Each connector undergoes thorough visual and mechanical inspections to detect defects, ensuring impeccable craftsmanship and structural integrity.
- **100% Capacitance, DWV, Insulation Resistance, and Dissipation Factor Testing:** Rigorous electrical testing guarantees optimal performance and reliability. Capacitance, DWV, insulation resistance, and dissipation factor are meticulously measured to exceed industry standards and customer expectations.
- **Sample Insertion Loss Testing (AQL 1.0%):** Sample connectors undergo insertion loss testing to assess signal integrity. With an AQL of 1.0%, only connectors meeting stringent performance criteria are shipped, ensuring consistent quality.

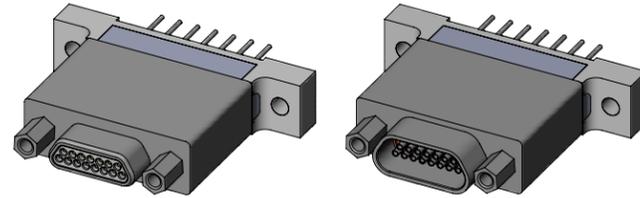
For applications requiring the highest level of reliability, we offer additional inspection tests and certifications, including:

- Thermal Shock Testing
- Elevated Temperature Voltage Conditioning
- Elevated Temperature Insulation Resistance and Capacitance Testing
- Outgassing per JSC-SPR-0022
- Baseline and Single Lot Date Code Manufacturing
- Tailored Testing Solutions
Please contact our factory for further details.

GENERAL INQUIRIES sales@amphenolcanada.com
+1 (416) 291-4401

SUPPORT BY REGION: amphenolcanada.com/Sales

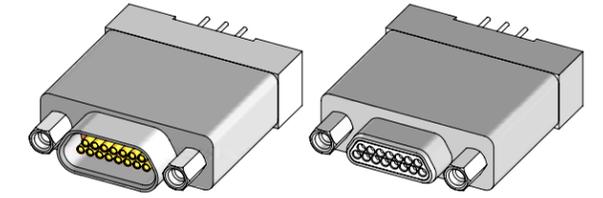
TERMINATION TYPE 1 BS - STRAIGHT PCB CONNECTOR



PLUG

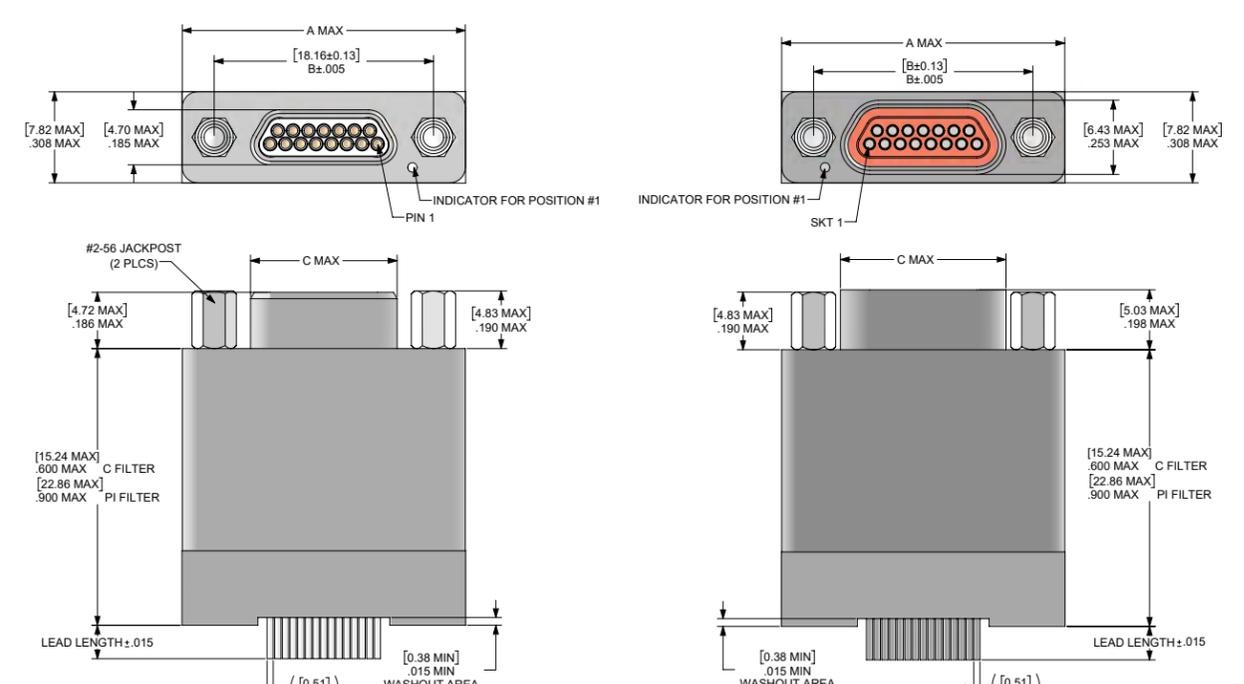
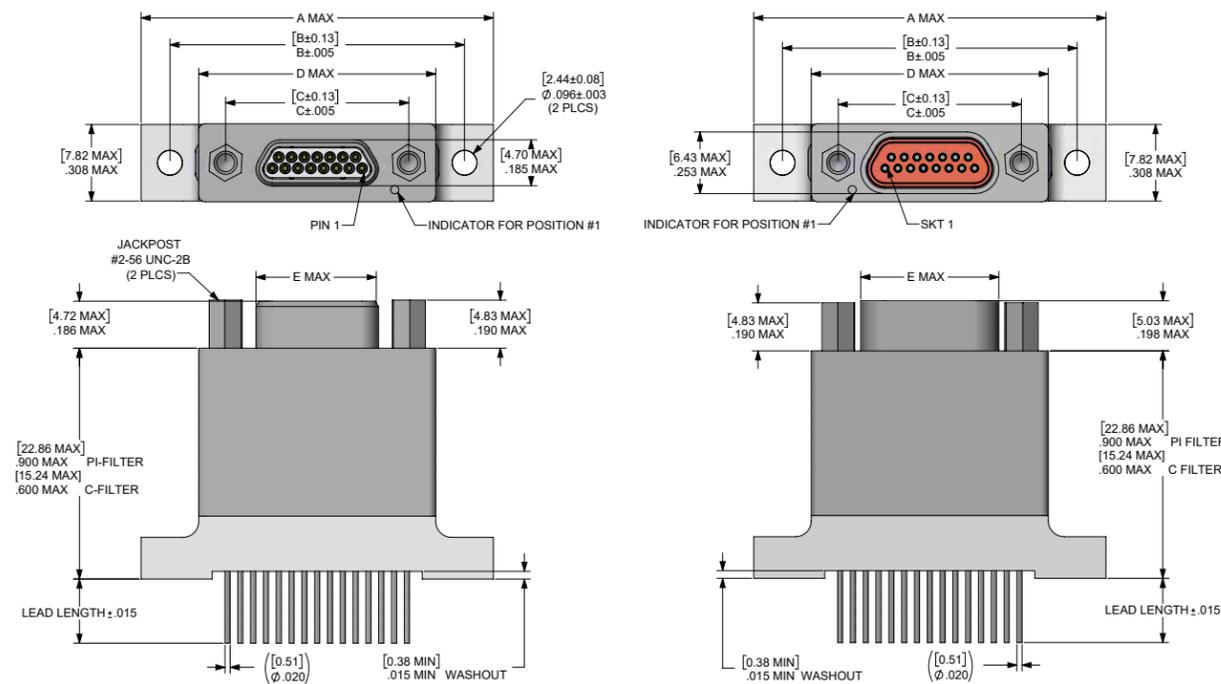
RECEPTACLE

TERMINATION TYPE 2 C6 - STRAIGHT PCB CONNECTOR



PLUG

RECEPTACLE



Dimensions are in inch (mm)

SIZE	±0.005 (0.13)	±0.005 (0.13)	±0.005 (0.13)	D MAX	E MAX	
					PLUG	RCPT
09			.565 (14.35)	.788 (20.02)	.334 (8.48)	.402 (10.21)
15	1.390 (35.31)	1.150 (29.21)	.715 (18.16)	.935 (23.75)	.484 (12.29)	.552 (14.02)
21	1.690 (42.93)	1.450 (36.83)	.865 (21.97)	1.085 (27.56)	.634 (16.10)	.702 (17.83)
25	1.740 (44.20)	1.500 (38.10)	.965 (24.51)	1.185 (30.10)	.734 (18.64)	.802 (20.37)
31	2.040 (51.82)	1.800 (45.72)	1.115 (28.32)	1.335 (33.91)	.884 (22.45)	.952 (24.18)
37	2.340 (59.44)	2.100 (53.34)	1.265 (32.13)	1.485 (37.72)	1.034 (26.26)	1.102 (27.99)

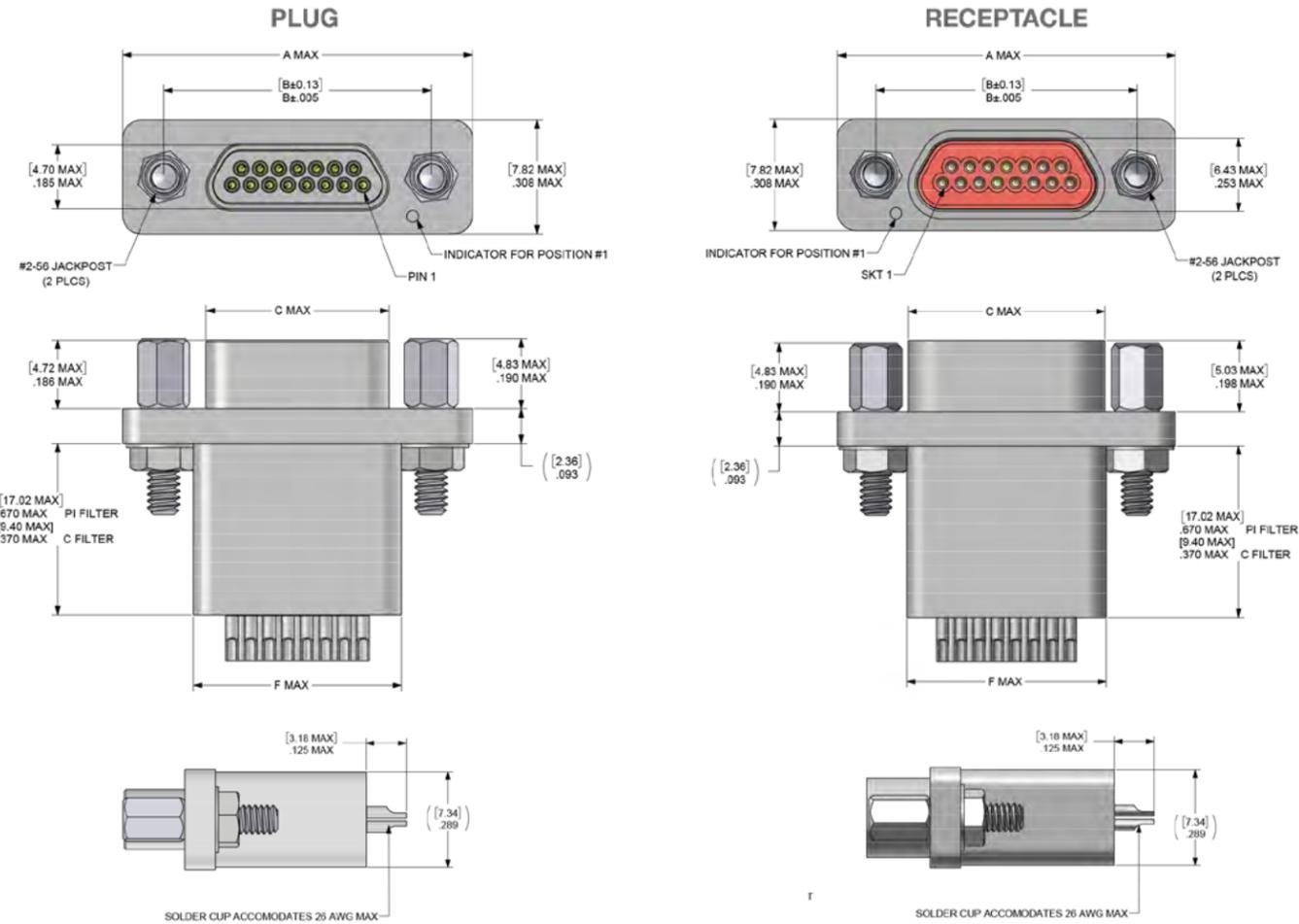
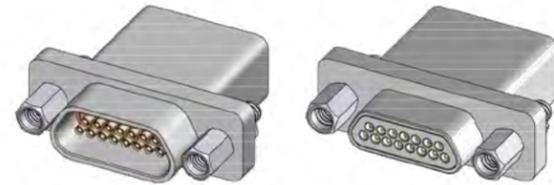
Notes:
Refer to page 30 for grid patterns

Dimensions are in inch (mm)

SIZE	±0.005 (0.13)	±0.005 (0.13)	C MAX	
			PLUG	RCPT
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)

Notes:
Refer to 34 for grid patterns

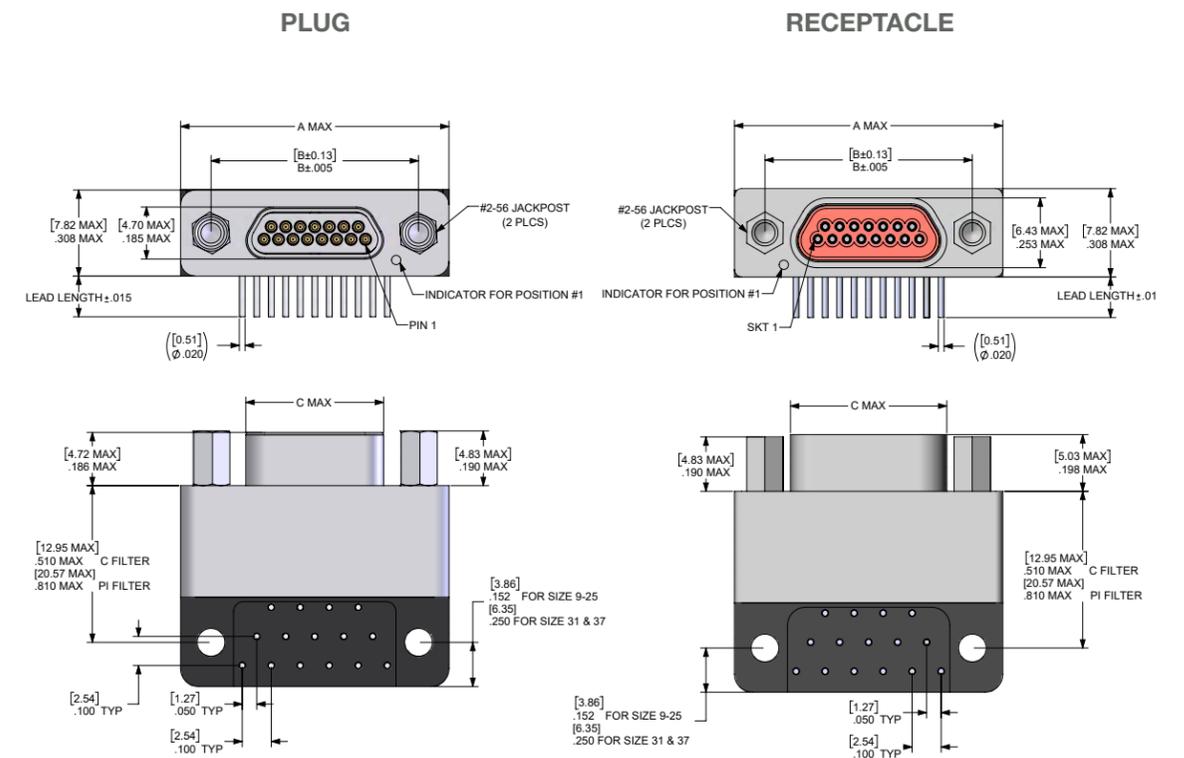
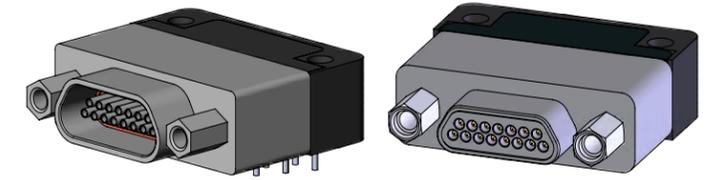
TERMINATION TYPE 3 SOLDER CUP CONNECTOR



Dimensions are in inch (mm)

SIZE	A ±0.005 (0.13)	B ±0.005 (0.13)	E MAX		F MAX
			PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)	.400 (10.16)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (13.97)	.550 (13.97)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.700 (17.78)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)	.800 (20.32)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)	.950 (24.13)
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)	1.100 (27.94)

TERMINATION TYPE 4 CBR - NARROW RIGHT ANGLE PCB CONNECTOR

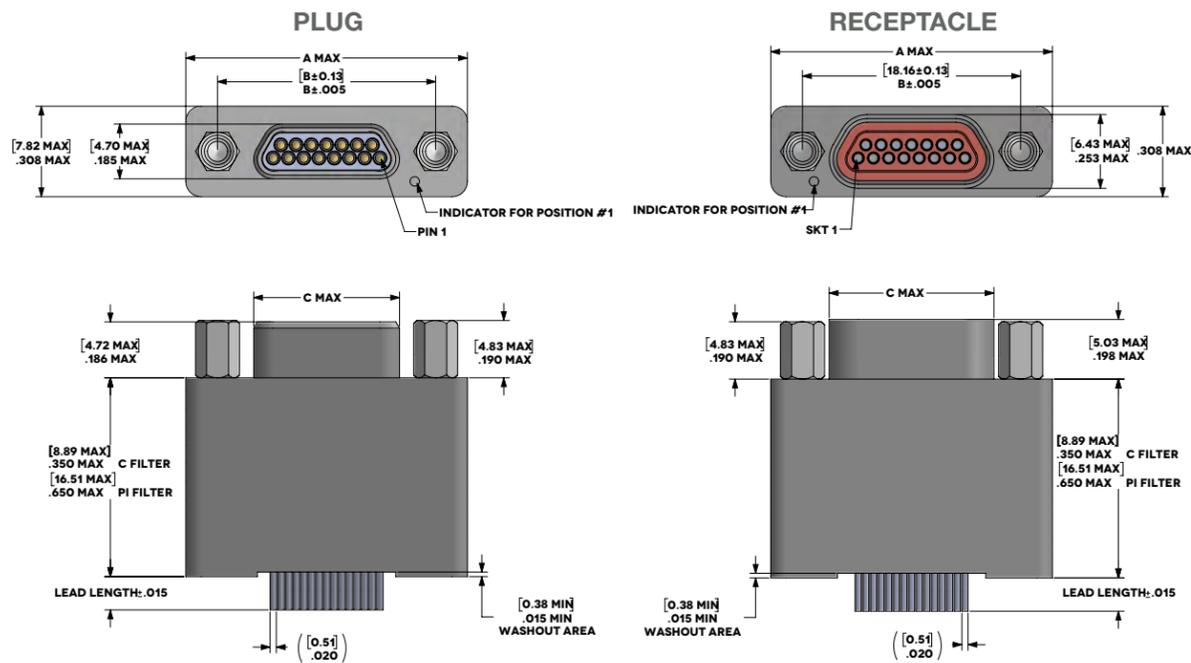
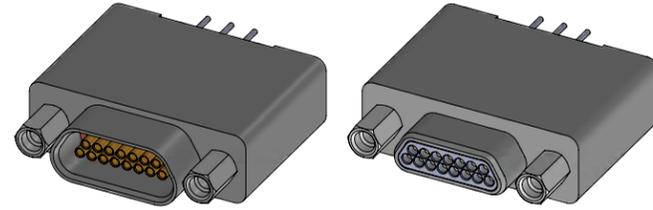


Dimensions are in inch (mm)

SIZE	A ±0.005 (0.13)	B ±0.005 (0.13)	C MAX	
			PLUG	RCPT
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (13.97)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)

Notes
Refer to 22 for grid patterns

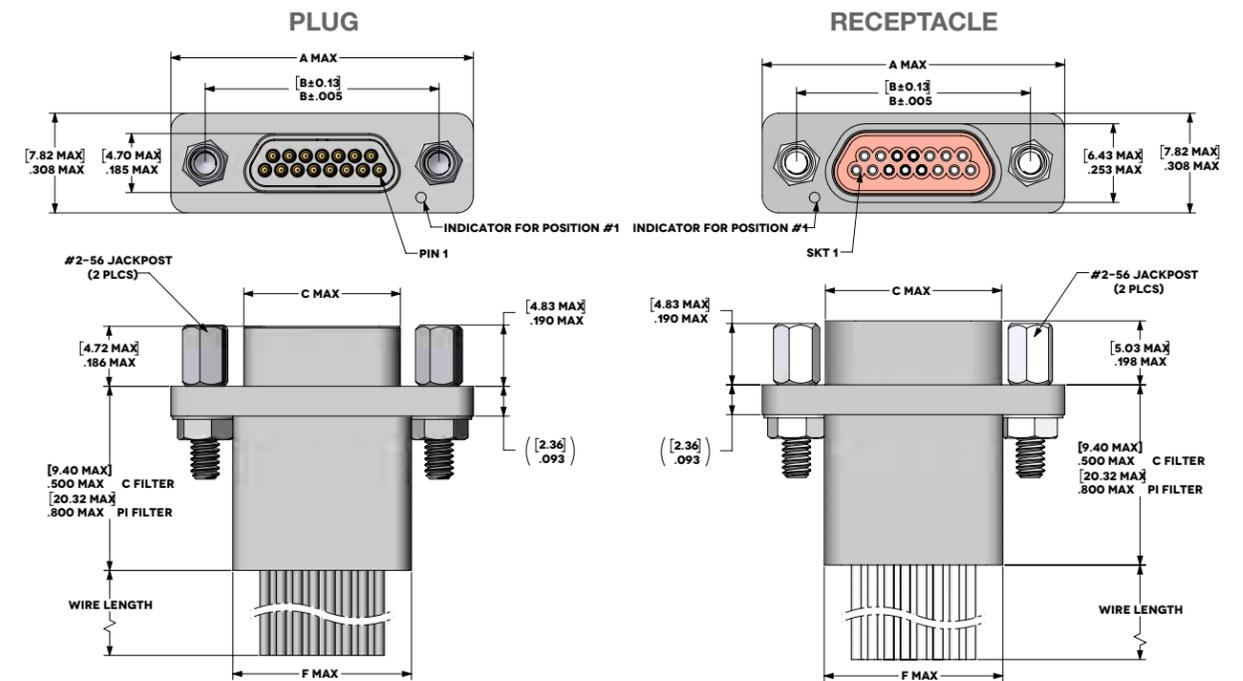
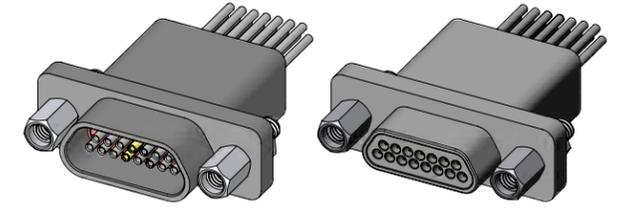
TERMINATION TYPE 5 SOLID WIRE STRAIGHT CONNECTOR



Dimensions are in inch (mm)

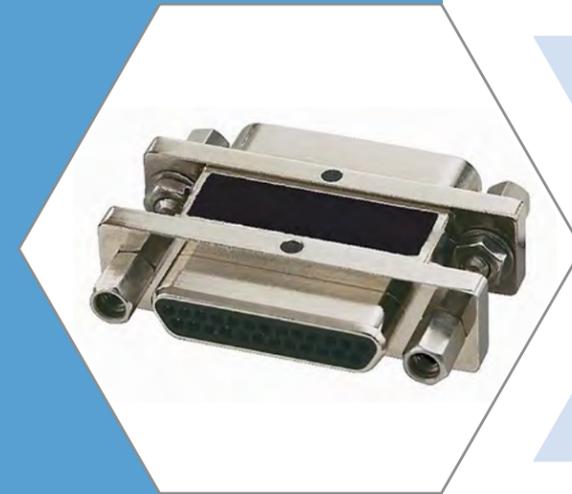
SIZE	A ±0.005 (0.13)	B ±0.005 (0.13)	C MAX	
			PLUG	RCPT
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (13.97)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)

TERMINATION TYPE 6 STRANDED WIRE STRAIGHT CONNECTOR



Dimensions are in inch (mm)

SIZE	A ±0.005 (0.13)	B ±0.005 (0.13)	E MAX		F MAX
			PLUG	RCPT	
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)	.400 (10.16)
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (13.97)	.550 (13.97)
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.700 (17.78)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)	.800 (20.32)
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)	.950 (24.13)
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)	1.100 (27.94)



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories**

CONNECTOR SAVER

100, 101, 102 & 104 SERIES

Amphenol offers a full range of connector savers and adapters to protect critical micro-D interfaces in customer applications and systems.

Both adapter style and gender changer formats are supported, with multiple hardware options.

PART NUMBER KEY

Series	Insulator Material	Shell Finish	Connector Size	Connector Type	Hardware
100	R	A	09	P/S	B

Series	
100	Metal Shell Per M83513
101	Low Profile All Plastic Shell per M83513
102	Plastic Shell (Dimensionally identical to 100 series)
104	Passivated Stainless Steel (Dimensionally identical to 100 series)

Insulator Material	
R	Polyphenylene Sulfide (Ryton)

Shell Finish	
Omit for 101, 102 & 104 series	
A	Anodized (Black)
C	Cadmium (Yellow Chromate)
G	Gold

Shell Finish	
<i>Continued</i>	
I	Iridite/Alodine
T	Nickel fluorocarbon polymer
N	Electroless Nickel

Connector Size (Number of contacts)		
09	15	21
25	31	37
51	69*	100

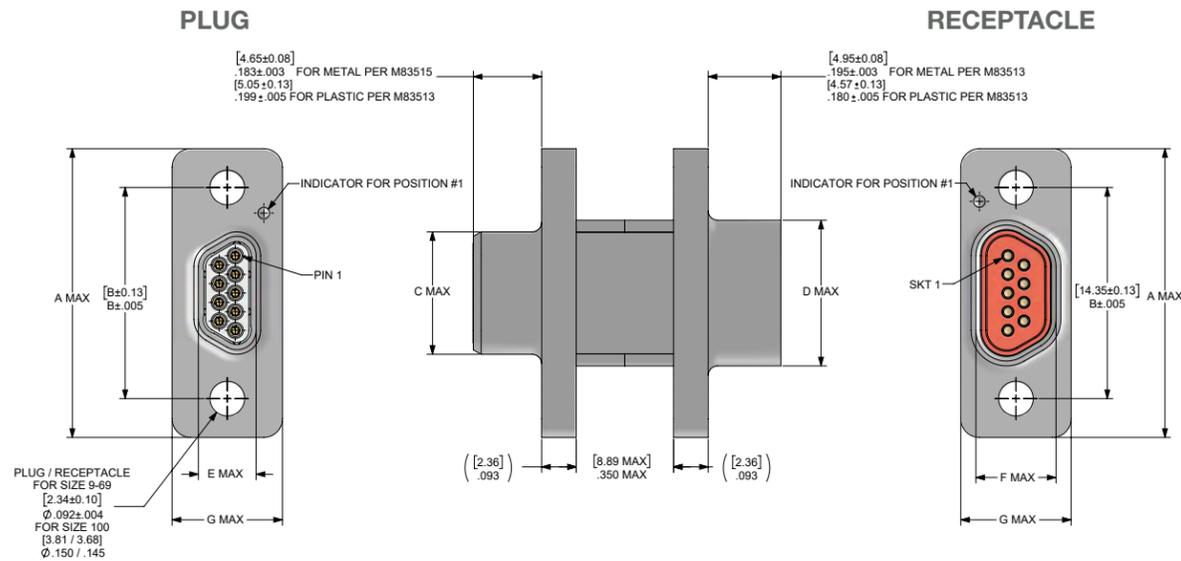
* Non-military spec. (I.A.W M83513)

Connector Type	
CONNECTOR SAVER	
P/S	Plug to receptacle
G/S	Plug (w/ EMI spring) to receptacle

Connector Type	
<i>Continued</i>	
GENDER CHANGER	
P/P	Plug to plug (for receptacles)
G/G	Plug to plug w/ EMI springs (for receptacle)
S/S	Receptacle to receptacle (for plugs)

Hardware – Pre-installed by factory	
B	Standard Mounting Holes
P	Jackpost (both ends)
C	Captive jackpost (for connector savers P/S, P/P & S/S)
C1	Pre-installed post on receptacle end and screw on plug end
C2	Pre-installed post on plug end and screw on receptacle end

100, 101, 102 & 104 SERIES — CONNECTOR SAVER



100, 102 & 104 SERIES

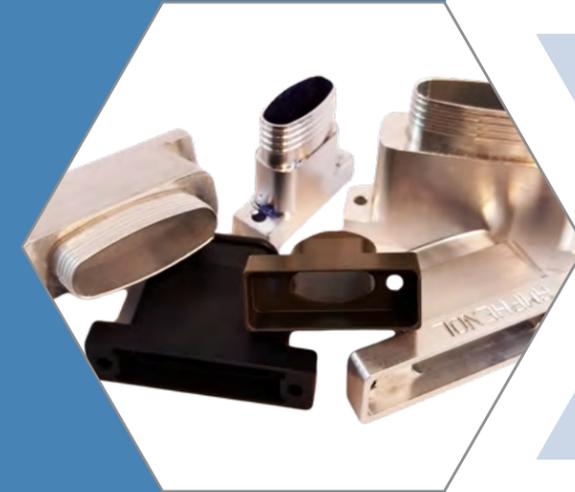
Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C MAX	D MAX	E MAX	F MAX	G MAX
09	.785 (19.94)	.565 (14.35)	.334 (8.48)	.402 (10.21)			
15	.935 (23.75)	.715 (18.16)	.484 (12.29)	.552 (14.02)			
21	1.085 (27.56)	.865 (21.97)	.634 (16.10)	.702 (17.83)	.185 (4.70)	.253 (6.43)	.308 (7.82)
25	1.185 (30.10)	.965 (24.51)	.734 (18.64)	.802 (20.37)			
31	1.335 (33.91)	1.115 (28.32)	.884 (22.45)	.952 (24.18)			
37	1.485 (37.72)	1.265 (32.13)	1.034 (26.26)	1.102 (27.99)			
51	1.435 (36.45)	1.215 (30.86)	.984 (24.99)	1.052 (26.72)	.228 (5.79)	.296 (7.52)	.351 (8.92)
69	1.735 (44.07)	1.515 (38.48)	1.289 (32.74)	1.357 (34.47)			
100	2.160 (54.86)	1.800 (45.72)	1.384 (35.15)	1.508 (38.30)	.271 (6.88)	.394 (10.01)	.394 (10.01)

101 SERIES

Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C MAX	D MAX	E MAX	F MAX	G MAX
09	.788 (20.02)	.565 (14.35)	.292 (7.42)	.380 (9.65)			
15	.938 (23.82)	.715 (18.16)	.442 (11.23)	.530 (13.46)			
21	1.088 (27.64)	.865 (21.97)	.592 (15.04)	.680 (17.27)	.134 (3.40)	.218 (5.54)	.218 (5.54)
25	1.188 (30.18)	.965 (24.51)	.692 (17.58)	.780 (19.81)			
31	1.338 (33.99)	1.115 (28.32)	.842 (21.39)	.930 (23.62)			
37	1.488 (37.80)	1.265 (32.13)	.992 (25.10)	1.080 (27.43)			
51	1.438 (36.53)	1.215 (30.86)	.942 (23.93)	1.030 (26.16)	.177 (4.50)	.260 (6.60)	.260 (6.60)



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

EMI BACKSHELLS

MBS SERIES

SPECIFICATIONS

Material	Aluminum alloy
Magnetic Permeability MIL-I-17214	< 2μ
Shielding Efficiency	60 dB to >100 dB up to 1 GHz
Vibration MIL-STD-1344 Method 2004, Condition C	No damage or discontinuity between shell and shield

PART NUMBER KEY



Series 1
MBS Micro-D EMI Backshells

Shell Finish 3
Continued
N Electroless Nickel
Z Customer Specified Plating

Exit Angle 6
00 Straight Exit
90 Right Angle Exit
45 45° Exit

Connector Size 2
(Number of contacts)

09	15	21
25	31	37
51	69	100

Exit Shape 4
C Circular Cable Exit
E Elliptical Cable Exit

Hardware 7
M2 Low Profile Allen (Hex) Head Jackscrew
M5 Low Profile Slot Head Jackscrew
M6 High Profile Slot Head Jackscrew
P Jackpost

Shell Finish 3

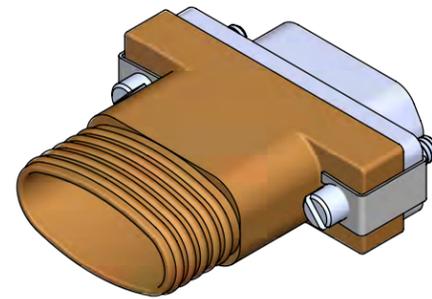
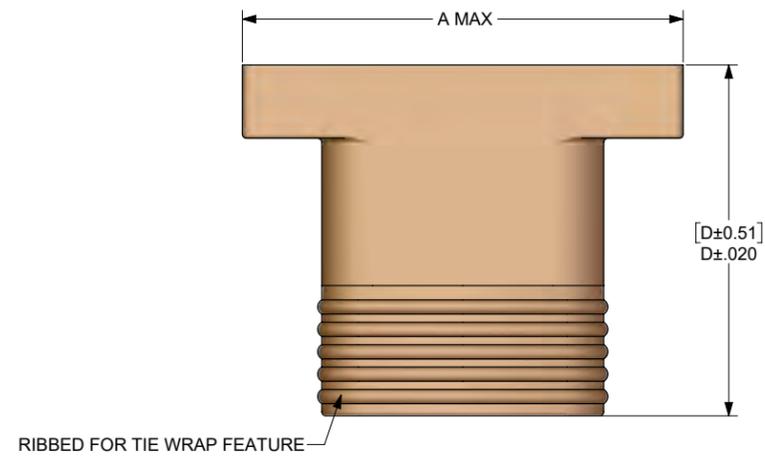
A	Anodized (Black)
C	Cadmium (Yellow Chromate)
G	Gold
K	Zinc Nickel - 48 Hrs
T	Nickel fluorocarbon polymer

Cable Exit Size 5

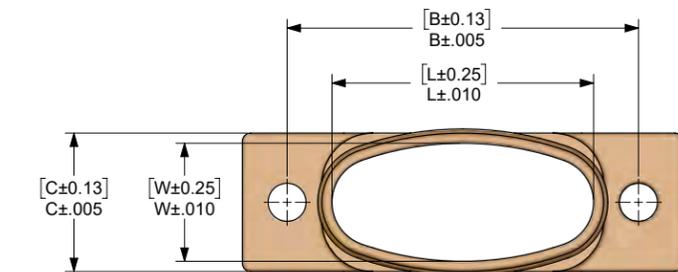
A	D	G
B	E	H
C	F	J

Split Option 8
Omit for One Piece construction
2 Split - 2 Pieces construction

STRAIGHT CABLE EXIT



Connector Shown for Reference Only
(Order Separately)



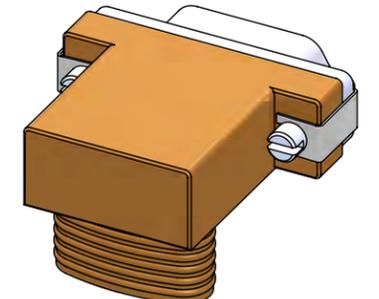
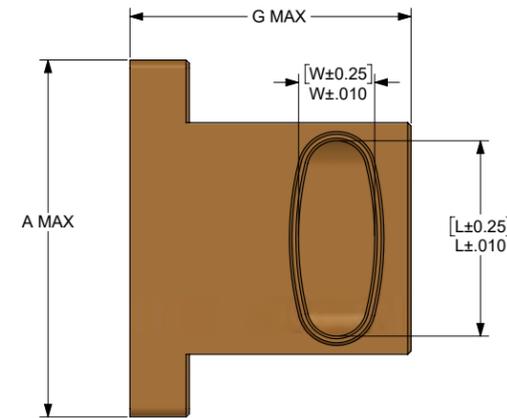
Dimensions are in inch (mm)

CABLE EXIT SIZE	W ±0.010 (0.25)	L ±0.010 (0.25)	AVAILABLE ON SIZES
A		.344 (8.74)	09 THRU 100
B		.494 (12.55)	15 THRU 100
C		.644 (16.36)	21 THRU 100
D	.284 (7.21)	.744 (18.90)	25 THRU 100
E		.894 (22.71)	31 THRU 100
F		.994 (25.25)	37 THRU 100
G		1.040 (26.42)	37, 69 & 100
J	.320 (8.13)	1.250 (31.75)	69 THRU 100
H	.384 (9.75)	1.520 (38.61)	100 ONLY

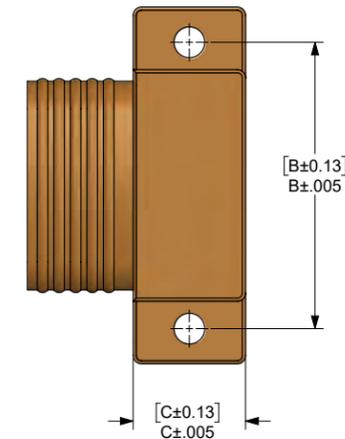
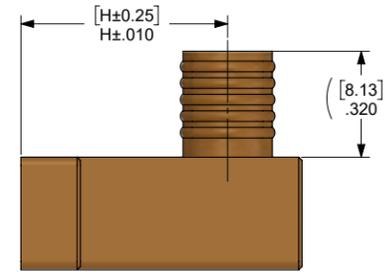
Dimensions are in inch (mm)

SIZE	A MAX	B ±0.005 (0.13)	C ±0.005 (0.13)	D ±0.020 (0.51)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.762 (19.35)
15	.935 (23.75)	.715 (18.16)		.812 (20.62)
21	1.085 (27.56)	.865 (21.97)		.862 (21.89)
25	1.185 (30.10)	.965 (24.51)		.912 (23.16)
31	1.335 (33.91)	1.115 (28.32)		.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)		.992 (25.20)
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	1.072 (27.32)
69	1.735 (44.07)	1.515 (38.48)		1.102 (27.99)
100	2.175 (55.25)	1.800 (45.72)		1.137 (28.88)

RIGHT ANGLE CABLE EXIT



Connector Shown for Reference Only
(Order Separately)



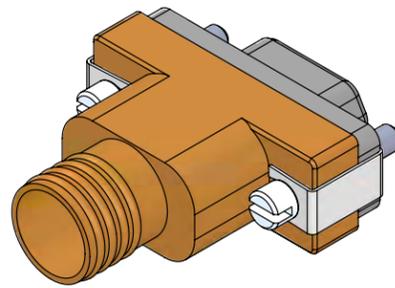
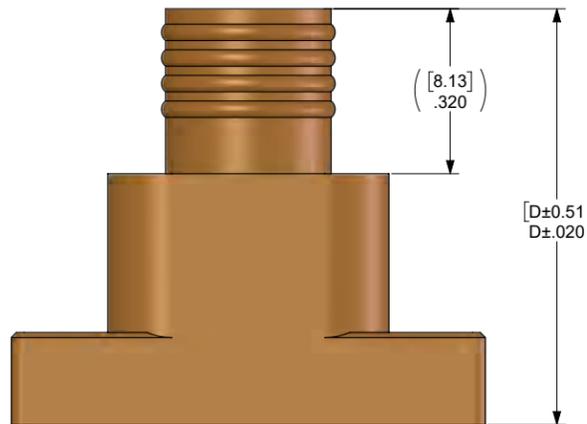
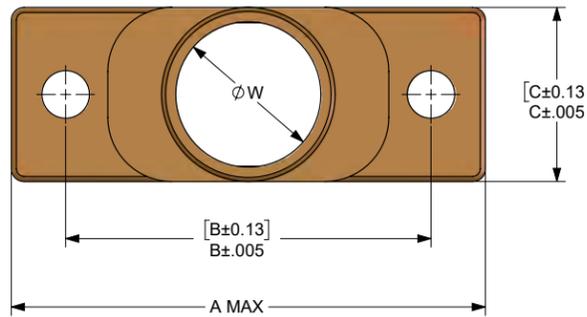
Dimensions are in inch (mm)

CABLE EXIT SIZE	W ±0.010 (0.25)	L ±0.010 (0.25)	AVAILABLE ON SIZES
A		.265 (6.73)	09 THRU 100
B		.415 (10.54)	15 THRU 100
C		.565 (14.35)	21 THRU 100
D	.220 (5.59)	.665 (16.89)	25 THRU 100
E		.815 (20.70)	31 THRU 100
F		.865 (21.97)	37 THRU 100
G		.915 (23.24)	51 THRU 100
J	.280 (7.11)	1.215 (30.86)	69 & 100
H	.330 (8.38)	1.295 (32.89)	100 ONLY

Dimensions are in inch (mm)

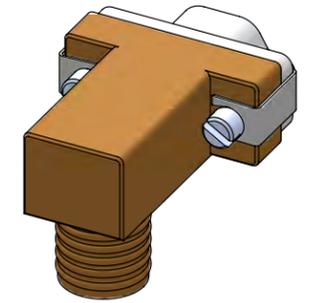
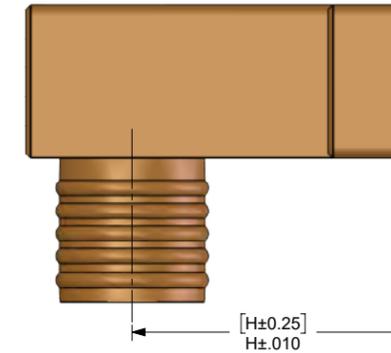
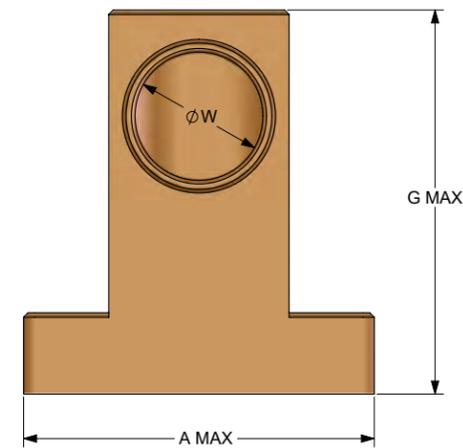
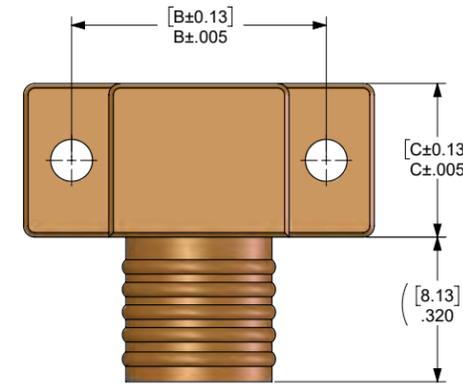
SIZE	A MAX	B ±0.005 (0.13)	C ±0.005 (0.13)	G MAX	H ±0.010 (0.25)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.865 (21.97)	.625 (15.88)
15	.935 (23.75)	.715 (18.16)			
21	1.085 (27.56)	.865 (21.97)			
25	1.185 (30.10)	.965 (24.51)			
31	1.335 (33.91)	1.115 (28.32)			
37	1.485 (37.72)	1.265 (32.13)			
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	.925 (23.50)	.645 (16.38)
69	1.735 (44.07)	1.515 (38.48)			
100	2.175 (55.25)	1.800 (45.72)			

STRAIGHT CABLE EXIT



Connector Shown for Reference Only
(Order Separately)

RIGHT ANGLE CABLE EXIT



Connector Shown for Reference Only
(Order Separately)

Dimensions are in inch (mm)

CABLE EXIT SIZE	W ± 0.010 (0.25)	AVAILABLE ON SIZES
A	.284 (7.21)	09 THRU 100
B	.344 (8.74)	51 AND 100
C	.384 (9.75)	100 ONLY

Dimensions are in inch (mm)

CABLE EXIT SIZE	W ± 0.010 (0.25)	AVAILABLE ON SIZES
A	.284 (7.21)	09 THRU 100
B	.344 (8.74)	51 THRU 100
C	.384 (9.75)	100 ONLY

Dimensions are in inch (mm)

SIZE	A MAX	B ± 0.005 (0.13)	C ± 0.005 (0.13)	D ± 0.020 (0.51)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.762 (19.35)
15	.935 (23.75)	.715 (18.16)		.812 (20.62)
21	1.085 (27.56)	.865 (21.97)		.862 (21.89)
25	1.185 (30.10)	.965 (24.51)		.912 (23.16)
31	1.335 (33.91)	1.115 (28.32)		.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)		.992 (25.20)
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	1.072 (27.32)
69	1.735 (44.07)	1.515 (38.48)		1.102 (27.99)
100	2.175 (55.25)	1.800 (45.72)		1.137 (28.88)

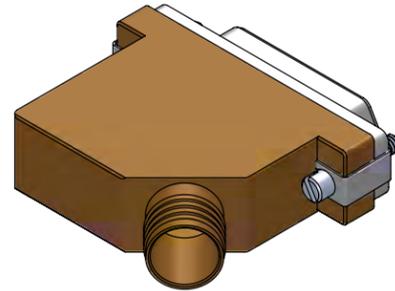
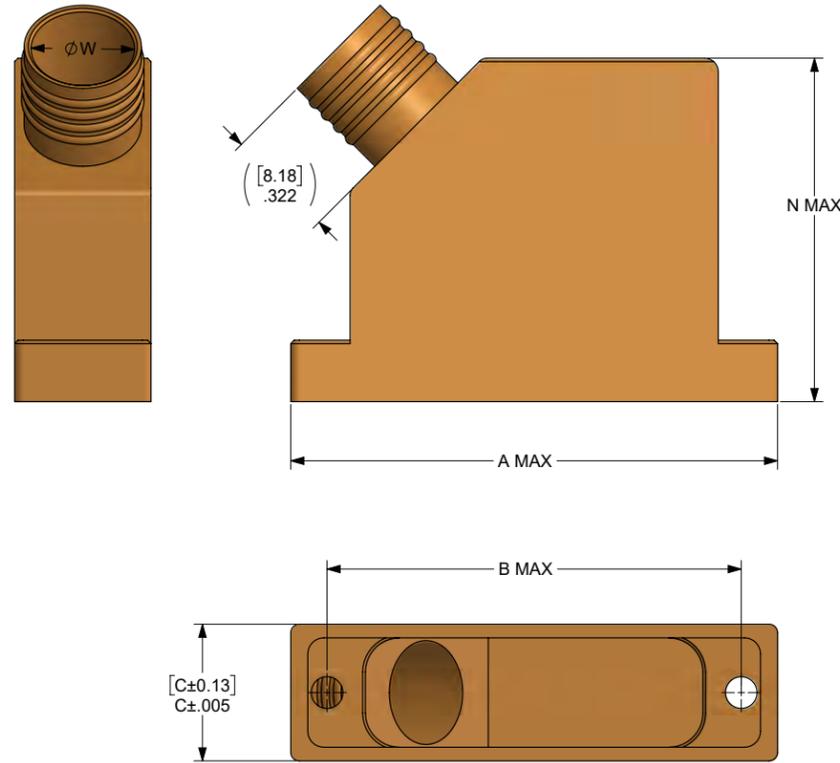
Dimensions are in inch (mm)

SIZE	A MAX	B ± 0.005 (0.13)	C ± 0.005 (0.13)	G MAX	H ± 0.010 (0.25)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.865 (21.97)	.625 (15.88)
15	.935 (23.75)	.715 (18.16)			
21	1.085 (27.56)	.865 (21.97)			
25	1.185 (30.10)	.965 (24.51)			
31	1.335 (33.91)	1.115 (28.32)			
37	1.485 (37.72)	1.265 (32.13)			
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	.925 (23.50)	.645 (16.38)
69	1.735 (44.07)	1.515 (38.48)			
100	2.175 (55.25)	1.800 (45.72)			

CIRCULAR CABLE EXIT DIMENSIONS

EMI BACKSHELLS — MBS SERIES

45° ANGLE CABLE EXIT



Connector Shown for Reference Only
(Order Separately)

Dimensions are in inch (mm)

CABLE EXIT SIZE	W ± 0.010 (0.25)	AVAILABLE ON SIZES
A	.284 (7.21)	09 THRU 100
B	.344 (8.74)	51 THRU 100
C	.384 (9.75)	100 ONLY

Dimensions are in inch (mm)

SIZE	A MAX	B ± 0.005 (0.13)	C ± 0.005 (0.13)	N MAX
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.865 (21.97)
15	.935 (23.75)	.715 (18.16)		
21	1.085 (27.56)	.865 (21.97)		
25	1.185 (30.10)	.965 (24.51)		
31	1.335 (33.91)	1.115 (28.32)		
37	1.485 (37.72)	1.265 (32.13)	.400 (10.16)	.925 (23.50)
51	1.435 (36.45)	1.215 (30.86)		
69	1.735 (44.07)	1.515 (38.48)		
100	2.175 (55.25)	1.800 (45.72)	.450 (11.43)	.960 (24.39)



- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

STANDARD HARDWARE

JACKSCREW | JACKPOST | FLOAT MOUNT

Made from stainless steel, these hardware options feature extended lengths and rear panel mounting capabilities to meet diverse application requirements.

This section details the dimensions of Amphenol Canada's Standard Jackscrew, Jackpost, and Float Mount hardware.

Explore the specifications to find the right fit for your needs.

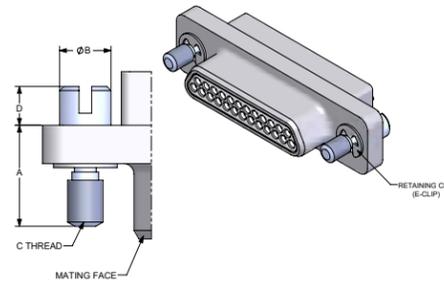
JACKSCREW	JACKPOST	FLOAT MOUNT
<p>LOW PROFILE</p>	<p>LOW PROFILE CAPTIVE</p>	<p>FORWARD</p>
<p>HIGH PROFILE</p>	<p>HIGH PROFILE CAPTIVE</p>	<p>REVERSE</p>

JACKSCREW ASSEMBLY

Dimensions are in inch (mm)

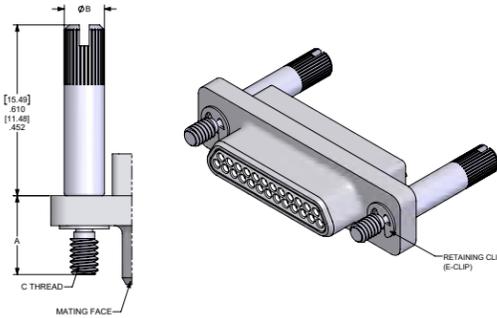
LOW PROFILE

SHELL SIZE	PART NUMBER			DIMENSIONS			
	AMPHENOL	CODE	MIL-SPEC	A	B	C (THREAD)	D
9 - 69	HM05-06	M5	M83513/05-06 (Slot)	.258 / .235 (6.55 / 5.97)	.125 (3.18)	#2-56 UNC-2A	.103/.070 (2.62/1.78)
	HM05-03	M2	M83513/05-02 (Allen)				
100	HM05-16	M5	M83513/05-15 (Slot)	.287±.005 (7.29±0.13)	.187 (4.75)	#4-40 UNC-2A	.098 (2.49)
	HM05-14	M2	M83513/05-12 (Allen)				



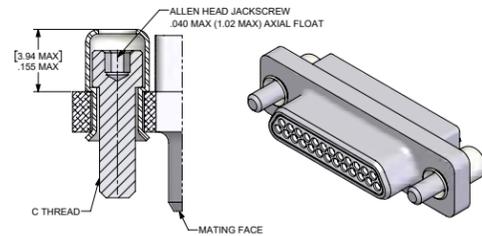
HIGH PROFILE

SHELL SIZE	PART NUMBER			DIMENSIONS		
	AMPHENOL	CODE	MIL-SPEC	A	B	C (THREAD)
9 - 69	HM05-06	M5	M83513/05-06 (Slot)	.258 / .235 (6.55 / 5.97)	.125 (3.18)	#2-56 UNC-2A
	HM05-03	M2	M83513/05-02 (Allen)			
100	HM05-16	M5	M83513/05-15 (Slot)	.287±.005 (7.29±0.13)	.187 (4.75)	#4-40 UNC-2A
	HM05-14	M2	M83513/05-12 (Allen)			

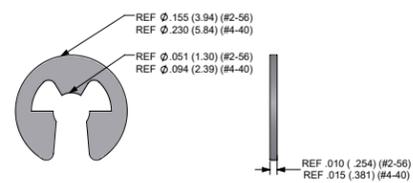


LOW PROFILE CAPTIVE

SHELL SIZE	P/N CODE	C (THREAD)
9 - 69	L	#2-56 UNC-2A
100		#4-40 UNC-2A

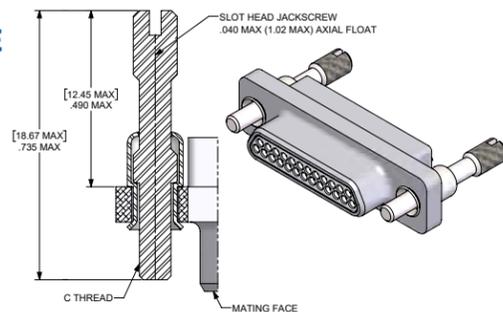


RETAINING CLIP DETAIL

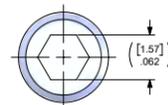


HIGH PROFILE CAPTIVE

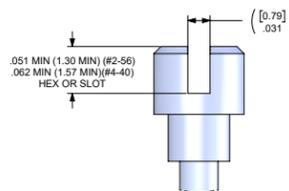
SHELL SIZE	P/N CODE	C (THREAD)
9 - 69	K	#2-56 UNC-2A
100		#4-40 UNC-2A



ALLEN HEAD DETAIL



SLOT HEAD DETAIL



Notes (unless otherwise specified):
 1 Custom Hardware pre-installed by the factory
 2 Captive Hardware provided secure mounting
 For special design hardware, consult Amphenol

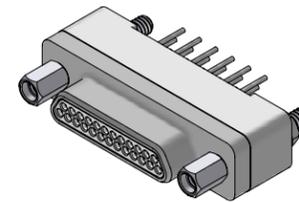
SUPPORT BY REGION
 CONSULT:
amphenolcanada.com/Sales

JACKPOST ASSEMBLY

Dimensions are in inch (mm)

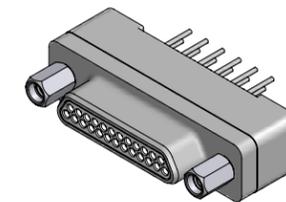
C6

without thread insert



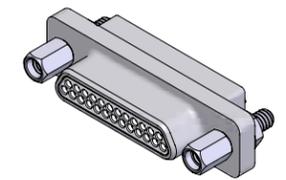
BS, BR, CBR & C6

with thread insert

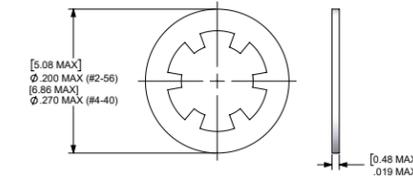


SOLDER CUP & C16

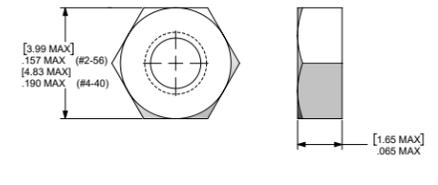
(wires)



LOCK WASHER DETAIL



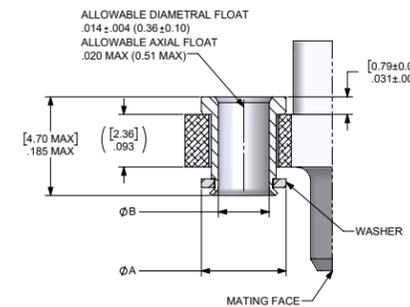
NUT DETAIL



SHELL SIZE	PART NUMBER			DIMENSIONS				
	AMPHENOL	CODE	MIL-SPEC	A	B	C (THREAD)	D (THREAD)	E (HEX)
9 - 69	HM05-07	P	M83513/05-07	.190 / .185 (4.83 / 4.70)	.155 (3.94)	#2-56 UNC-2A	#2-56 UNC-2B	.125 (3.18)
100	HM05-17		M83513/05-17	.185 / .180 (4.70 / 4.58)	.170 (4.32)	#4-40 UNC-2A	#4-40 UNC-2B	.187 (4.75)

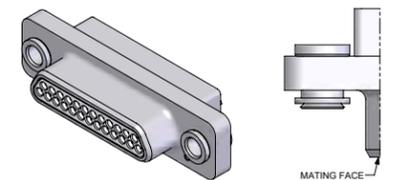
FLOAT MOUNT

Dimensions are in inch (mm)



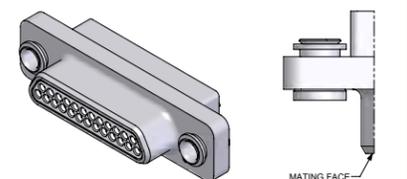
SHELL SIZE	P/N CODE	A	B
9 - 69	F - Forward R - Reverse	.150 ± .003 (3.81 ± .076)	.090 ± .0015 (2.99 ± .0038)
100		.174 ± .005 (4.40 ± .013)	.116 ± .002 (2.95 ± .051)

FORWARD FLOAT



REVERSE FLOAT

Dimensionally identical to Forward Float



REAR PANEL MOUNT JACKPOST ASSEMBLY

Dimensions are in inch (mm)

C16, H16, WIRES & SOLDER CUP

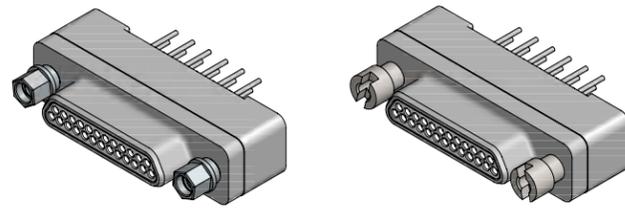
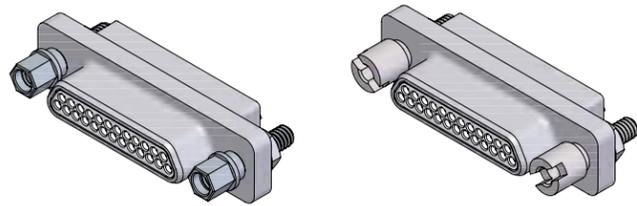
HEX HEAD-LONG

SLOT HEAD-LONG

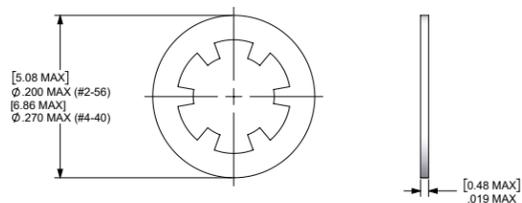
BS, BR, CBR, HBR, C6 & H6

HEX HEAD-SHORT

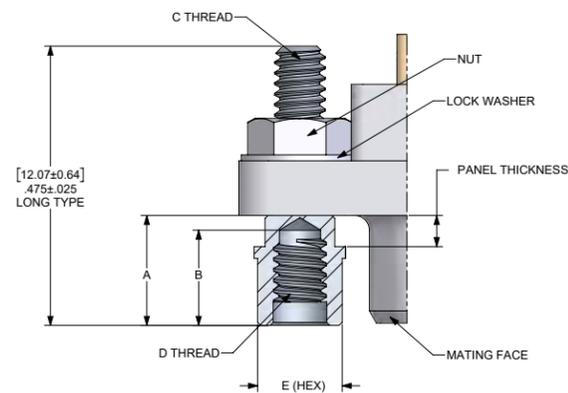
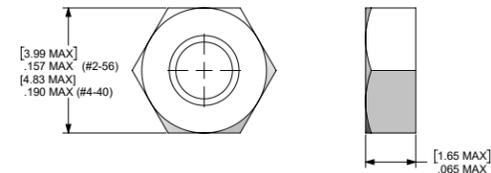
SLOT HEAD-SHORT



LOCK WASHER DETAIL



NUT DETAIL



SHELL SIZE
9 - 69

CAT. #	HEAD TYPE	THREAD	PANEL DESCRIPTION	LENGTH
HM05-20	Slot	2-56	SA - .027"-.037"	Long
HM05-21	Slot	2-56	SB - .042"-.052"	Long
HM05-22	Slot	2-56	SC - .057"-.066"	Long
HM05-23	Slot	2-56	SD - .088"-.098"	Long
HM05-24	Slot	2-56	SE - .078"-.085"	Long
HM05-25	Slot	2-56	SF - .120"-.130"	Long
HM05-26	Slot	2-56	SG - .067"-.077"	Long
HM05-30	Hex	2-56	PA - .027"-.037"	Long
HM05-31	Hex	2-56	PB - .042"-.052"	Long
HM05-32	Hex	2-56	PC - .057"-.066"	Long
HM05-33	Hex	2-56	PD - .088"-.098"	Long
HM05-34	Hex	2-56	PE - .078"-.085"	Long
HM05-35	Hex	2-56	PF - .120"-.130"	Long
HM05-36	Hex	2-56	PG - .067"-.077"	Long
HM05-40	Slot	2-56	SA - .027"-.037"	Short
HM05-41	Slot	2-56	SB - .042"-.052"	Short
HM05-42	Slot	2-56	SC - .057"-.066"	Short
HM05-43	Slot	2-56	SD - .088"-.098"	Short
HM05-44	Slot	2-56	SE - .078"-.085"	Short
HM05-45	Slot	2-56	SF - .120"-.130"	Short
HM05-46	Slot	2-56	SG - .067"-.077"	Short
HM05-50	Hex	2-56	PA - .027"-.037"	Short
HM05-51	Hex	2-56	PB - .042"-.052"	Short
HM05-52	Hex	2-56	PC - .057"-.066"	Short
HM05-53	Hex	2-56	PD - .088"-.098"	Short
HM05-54	Hex	2-56	PE - .078"-.085"	Short
HM05-55	Hex	2-56	PF - .120"-.130"	Short
HM05-56	Hex	2-56	PG - .067"-.077"	Short

100

CAT. #	HEAD TYPE	THREAD	PANEL DESCRIPTION	LENGTH
HM05-60	Slot	4-40	SA - .027"-.037"	Long
HM05-61	Slot	4-40	SB - .042"-.052"	Long
HM05-62	Slot	4-40	SC - .057"-.066"	Long
HM05-63	Slot	4-40	SD - .088"-.098"	Long
HM05-64	Slot	4-40	SE - .078"-.085"	Long
HM05-65	Slot	4-40	SF - .120"-.130"	Long
HM05-66	Slot	4-40	SG - .067"-.077"	Long
HM05-70	Hex	4-40	PA - .027"-.037"	Long
HM05-71	Hex	4-40	PB - .042"-.052"	Long
HM05-72	Hex	4-40	PC - .057"-.066"	Long
HM05-73	Hex	4-40	PD - .088"-.098"	Long
HM05-74	Hex	4-40	PE - .078"-.085"	Long
HM05-75	Hex	4-40	PF - .120"-.130"	Long
HM05-76	Hex	4-40	PG - .067"-.077"	Long
HM05-80	Slot	4-40	SA - .027"-.037"	Short
HM05-81	Slot	4-40	SB - .042"-.052"	Short
HM05-82	Slot	4-40	SC - .057"-.066"	Short
HM05-83	Slot	4-40	SD - .088"-.098"	Short
HM05-84	Slot	4-40	SE - .078"-.085"	Short
HM05-85	Slot	4-40	SF - .120"-.130"	Short
HM05-86	Slot	4-40	SG - .067"-.077"	Short
HM05-90	Hex	4-40	PA - .027"-.037"	Short
HM05-91	Hex	4-40	PB - .042"-.052"	Short
HM05-92	Hex	4-40	PC - .057"-.066"	Short
HM05-93	Hex	4-40	PD - .088"-.098"	Short
HM05-94	Hex	4-40	PE - .078"-.085"	Short
HM05-95	Hex	4-40	PF - .120"-.130"	Short
HM05-96	Hex	4-40	PG - .067"-.077"	Short

SHELL SIZE	PART NUMBER			DIMENSIONS				
	AMPHENOL	CODE	MIL-SPEC	A	B	C (THREAD)	D (THREAD)	E (HEX)
9 - 69	HM05-XX (See table x)	» PA / SA — .027" / .037" (0.69 / .094)	N/A	.185 / .190 (4.70 / 4.83)	.155 (3.94)	#2-56 UNC-2A	#2-56 UNC-2B	.125 (3.18)
100		» PB / SB — .042" / .052" (1.07 / 1.32)						

FOR MORE INFORMATION

GENERAL INQUIRIES
 ✉ sales@amphenolcanada.com

+1 (416) 291-4401
 SUPPORT BY REGION:
amphenolcanada.com/Sales



DUST CAPS

MDCE SERIES

- Standard Micro-D
- Environmental & Material Options
- Mechanical & Locking Types
- Board-Level Solutions
- Filtered & EMI Solutions
- Accessories

SPECIFICATIONS

Material	Metal	Aluminum alloy Stainless Steel
	Plastic	Polyphenylene Sulfide (Ryton)
Color	Black Pink	

Introducing Amphenol Canada's Micro-D Dust Caps, designed to protect Micro-D connectors during storage and handling. Made from thermoplastic LDPE, they meet MIL-PRF-81705D's anti-static standards and boast a UL 94-V0 rating for self-extinguishing properties.

PART NUMBER KEY



Series	1
MDCE	Micro-D Dust Cap

Connector Size (Number of contacts)			2
09	15	21	
25	31	37	
51	69	100	

Connector Type		3
P	Plug (Pin)	
S	Receptacle (Socket)	



DESIGN CAPABILITIES

CUSTOM CONFIGURATIONS & ASSEMBLIES



CABLE-HARNESSED ASSEMBLIES

- Specialize in cabling arrangements
- Various cable styles
 - » Over Molded
 - » Back Shell
 - » Shielded
 - » Twisted Pairs
 - » PCB
- Multiple Micro-D to Micro-D
- Micro-D to D-Sub
- Micro-D to D38999
- Micro-D to Flex
- Space grade assemblies
- Micro-D to PCB Termination
- Micro-D to header or other product termination
- Single or multiple cable/wire terminations (Micro-D to Micro-D, twisted pairs available)
- Single or multiple cable/wire terminations (Micro-D to D-sub, Shielded Teflon Cable)



MICRO-D CONNECTORS

- Contact arrangements up to 372 positions
- Contact styles
 - » Fiber Optic
 - » Power
 - » Signal
 - » RF
- Mounting styles
 - » SMT
 - » Through Hole
 - » Press Fit
 - » Solder Cup
 - » Blind Mate
- Custom contact lengths for multiple PCB thickness
- Custom connector shell designs available
- Standard and custom hardware available
- Custom surface mount with guide pins and threaded mounting features
- Custom insert pattern (signal & power or coax contacts)
- Custom strip line connector with mounting features
- Double or multiple bay (vertical / horizontal orientation)

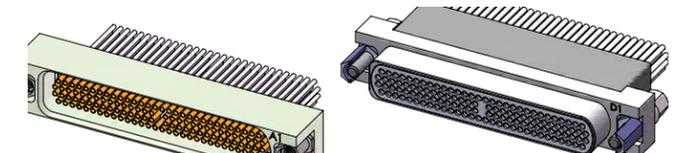
SPECIALTY CONNECTORS

Amphenol offers a diverse range of specialty connectors designed to meet your specific needs. Engineered for compactness, durability, and versatility, our connectors come with various contact types, shell materials, and mounting styles. Whether you need space-saving solutions for compact designs or high-density applications, our connectors deliver reliable and high-performance connectivity.



COMBO / HYBRID MICRO-D

- Suitable for compact designs
- Coax / Power / Signal contacts
- Metal or plastic shell
- Available sizes 9 thru 100
- Available in various shell finishes
- Wire or PCB termination
- Standard and custom hardware available



106 SERIES — HIGH-DENSITY CARD

- Designed for a space efficiency
- Provides an extremely dense and reliable interconnection for card-to-card and card-to-cable applications
- Connector performance per M83513 specifications
- Available in vertical mount for thru-hole and wire harness termination styles for both plug and receptacle
- Wide selection of wire sizes (24 thru 30)
- Shell employs a polarizing "D" shape for correct mating.

DIMENSIONS

AWG	DIAMETER	
	INCH	MM
0000 (4/0)	0.46	11.684
000 (3/0)	0.4096	10.404
00 (2/0)	0.3648	9.266
0 (1/0)	0.3249	8.252
1	0.2893	7.348
2	0.2576	6.544
3	0.2294	5.827
4	0.2043	5.189
5	0.1819	4.621
6	0.162	4.115
7	0.1443	3.665
8	0.1285	3.264
9	0.1144	2.906
10	0.1019	2.588
11	0.0907	2.305
12	0.0808	2.053
13	0.072	1.828
14	0.0641	1.628
15	0.0571	1.45
16	0.0508	1.291
17	0.0453	1.15
18	0.0403	1.024
19	0.0359	0.912
20	0.032	0.812
21	0.0285	0.723
22	0.0253	0.644
23	0.0226	0.573
24	0.0201	0.511
25	0.0179	0.455
26	0.0159	0.405
27	0.0142	0.361
28	0.0126	0.321
29	0.0113	0.286
30	0.01	0.255
31	0.00893	0.227
32	0.00795	0.202
33	0.00708	0.18
34	0.0063	0.16
35	0.00561	0.143
36	0.005	0.127
37	0.00445	0.113
38	0.00397	0.101
39	0.00353	0.0897
40	0.00314	0.0799

COLOR REFERENCE

PIN	BASE COLOR	STRIPE		
		1 st	2 nd	3 rd
1	Black	-	-	-
2	Brown	-	-	-
3	Red	-	-	-
4	Orange	-	-	-
5	Yellow	-	-	-
6	Green	-	-	-
7	Blue	-	-	-
8	Purple	-	-	-
9	Grey	-	-	-
10	White	-	-	-
11	Black	-	-	-
12	Brown	-	-	-
13	Red	-	-	-
14	Orange	-	-	-
15	Yellow	-	-	-
16	Green	-	-	-
17	Blue	-	-	-
18	Purple	-	-	-
19	Grey	-	-	-
20	Black	Brown	-	-
21	Black	Red	-	-
22	Black	Orange	-	-
23	Black	Yellow	-	-
24	Black	Green	-	-
25	Black	Blue	-	-
26	Black	Purple	-	-
27	Black	Grey	-	-
28	Brown	Red	-	-
29	Brown	Orange	-	-
30	Brown	Yellow	-	-
31	Brown	Green	-	-
32	Brown	Blue	-	-
33	Brown	Purple	-	-
34	Brown	Grey	-	-
35	Brown	Orange	-	-
36	Red	Yellow	-	-
37	Red	Green	-	-
38	Red	Blue	-	-
39	Red	Purple	-	-
40	Red	Grey	-	-
41	Orange	Yellow	-	-
42	Orange	Green	-	-
43	Orange	Blue	-	-
44	Orange	Purple	-	-
45	Orange	Grey	-	-
46	Yellow	Green	-	-
47	Yellow	Blue	-	-
48	Yellow	Purple	-	-
49	Yellow	Grey	-	-
50	Green	Blue	-	-

PIN	BASE COLOR	STRIPE		
		1 st	2 nd	3 rd
51	White	Green	Purple	-
52	White	Green	Grey	-
53	White	Blue	Purple	-
54	White	Blue	Grey	-
55	White	Purple	Grey	-
56	White	Black	Brown	Red
57	White	Black	Brown	Orange
58	White	Black	Brown	Yellow
59	White	Black	Brown	Green
60	White	Black	Brown	Blue
61	White	Black	Brown	Purple
62	White	Black	Brown	Grey
63	White	Black	Red	Orange
64	White	Black	Red	Yellow
65	White	Black	Red	Green
66	White	Black	Red	Blue
67	White	Black	Red	Purple
68	White	Black	Red	Grey
69	White	Black	Orange	Yellow
70	White	Black	Orange	Green
71	White	Black	Orange	Blue
72	White	Black	Orange	Purple
73	White	Black	Orange	Grey
74	White	Black	Yellow	Green
75	White	Black	Yellow	Blue
76	White	Black	Yellow	Purple
77	White	Black	Yellow	Grey
78	White	Black	Green	Blue
79	White	Black	Green	Purple
80	White	Black	Green	Grey
81	White	Black	Blue	Purple
82	White	Black	Blue	Grey
83	White	Black	Purple	Grey
84	White	Black	Purple	Orange
85	White	Black	Yellow	Green
86	White	Black	Yellow	Blue
87	White	Black	Yellow	Purple
88	White	Black	Yellow	Grey
89	White	Black	Orange	Yellow
90	White	Black	Orange	Green
91	White	Black	Orange	Blue
92	White	Black	Orange	Purple
93	White	Black	Orange	Grey
94	White	Black	Yellow	Green
95	White	Black	Yellow	Blue
96	White	Black	Yellow	Purple
97	White	Black	Yellow	Grey
98	White	Black	Green	Blue
99	White	Black	Green	Purple
100	White	Black	Green	Grey

MIL SPEC	ACC PN
M83513/01-AA	100RL09P-B
M83513/01-AC	100RC09P-B
M83513/01-AK	100RK09P-B
M83513/01-AN	100RN09P-B
M83513/01-AP	104R09P-B
M83513/01-AT	100RT09P-B
M83513/01-BA	100RL15P-B
M83513/01-BC	100RC15P-B
M83513/01-BK	100RK15P-B
M83513/01-BN	100RN15P-B
M83513/01-BP	104R15P-B
M83513/01-BT	100RT15P-B
M83513/01-CA	100RL21P-B
M83513/01-CC	100RC21P-B
M83513/01-CK	100RK21P-B
M83513/01-CN	100RN21P-B
M83513/01-CP	104R21P-B
M83513/01-CT	100RT21P-B
M83513/01-DA	100RL25P-B
M83513/01-DC	100RC25P-B
M83513/01-DK	100RK25P-B
M83513/01-DN	100RN25P-B
M83513/01-DP	104R25P-B
M83513/01-DT	100RT25P-B
M83513/01-EA	100RL31P-B
M83513/01-EC	100RC31P-B
M83513/01-EK	100RK31P-B
M83513/01-EN	100RN31P-B
M83513/01-EP	104R31P-B
M83513/01-ET	100RT31P-B
M83513/01-FA	100RL37P-B
M83513/01-FC	100RC37P-B
M83513/01-FK	100RK37P-B
M83513/01-FN	100RN37P-B
M83513/01-FP	104R37P-B
M83513/01-FT	100RT37P-B
M83513/01-GA	100RL51P-B
M83513/01-GC	100RC51P-B
M83513/01-GK	100RK51P-B
M83513/01-GN	100RN51P-B
M83513/01-GP	104R51P-B
M83513/01-GT	100RT51P-B
M83513/01-HA	100RL100P-B
M83513/01-HC	100RC100P-B
M83513/01-HK	100RK100P-B
M83513/01-HN	100RN100P-B
M83513/01-HP	104R100P-B
M83513/01-HT	100RT100P-B
M83513/02-AA	100RL09S-B
M83513/02-AC	100RC09S-B
M83513/02-AK	100RK09S-B
M83513/02-AN	100RN09S-B

MIL SPEC	ACC PN
M83513/02-AP	104R09S-B
M83513/02-AT	100RT09S-B
M83513/02-BA	100RL15S-B
M83513/02-BC	100RC15S-B
M83513/02-BK	100RK15S-B
M83513/02-BN	100RN15S-B
M83513/02-BP	104R15S-B
M83513/02-BT	100RT15S-B
M83513/02-CA	100RL21S-B
M83513/02-CC	100RC21S-B
M83513/02-CK	100RK21S-B
M83513/02-CN	100RN21S-B
M83513/02-CP	104R21S-B
M83513/02-CT	100RT21S-B
M83513/02-DA	100RL25S-B
M83513/02-DC	100RC25S-B
M83513/02-DK	100RK25S-B
M83513/02-DN	100RN25S-B
M83513/02-DP	104R25S-B
M83513/02-DT	100RT25S-B
M83513/02-EA	100RL31S-B
M83513/02-EC	100RC31S-B
M83513/02-EK	100RK31S-B
M83513/02-EN	100RN31S-B
M83513/02-EP	104R31S-B
M83513/02-ET	100RT31S-B
M83513/02-FA	100RL37S-B
M83513/02-FC	100RC37S-B
M83513/02-FK	100RK37S-B
M83513/02-FN	100RN37S-B
M83513/02-FP	104R37S-B
M83513/02-FT	100RT37S-B
M83513/02-GA	100RL51S-B
M83513/02-GC	100RC51S-B
M83513/02-GK	100RK51S-B
M83513/02-GN	100RN51S-B
M83513/02-GP	104R51S-B
M83513/02-GT	100RT51S-B
M83513/02-HA	100RL100S-B
M83513/02-HC	100RC100S-B
M83513/02-HK	100RK100S-B
M83513/02-HN	100RN100S-B
M83513/02-HP	104R100S-B
M83513/02-HT	100RT100S-B
M83513/03-A01A	100RL09P-4E1AB
M83513/03-A01C	100RC09P-4E1AB
M83513/03-A01K	100RK09P-4E1AB
M83513/03-A01N	100RN09P-4E1AB
M83513/03-A01P	104R09P-4E1AB
M83513/03-A01T	100RT09P-4E1AB
M83513/03-A02A	100RL09P-4E1BB
M83513/03-A02C	100RC09P-4E1BB

MIL SPEC	ACC PN
M83513/03-A02K	100RK09P-4E1BB
M83513/03-A02N	100RN09P-4E1BB
M83513/03-A02P	104R09P-4E1BB
M83513/03-A02T	100RT09P-4E1BB
M83513/03-A03A	100RL09P-4E6AB
M83513/03-A03C	100RC09P-4E6AB
M83513/03-A03K	100RK09P-4E6AB
M83513/03-A03N	100RN09P-4E6AB
M83513/03-A03P	104R09P-4E6AB
M83513/03-A03T	100RT09P-4E6AB
M83513/03-A04A	100RL09P-4E6BB
M83513/03-A04C	100RC09P-4E6BB
M83513/03-A04K	100RK09P-4E6BB
M83513/03-A04N	100RN09P-4E6BB
M83513/03-A04P	104R09P-4E6BB
M83513/03-A04T	100RT09P-4E6BB
M83513/03-A05C	100RC09P-5L4DB
M83513/03-A05K	100RK09P-5L4DB
M83513/03-A05N	100RN09P-5L4DB
M83513/03-A05T	100RT09P-5L4DB
M83513/03-A06C	100RC09P-5L4EB
M83513/03-A06K	100RK09P-5L4EB
M83513/03-A06N	100RN09P-5L4EB
M83513/03-A06T	100RT09P-5L4EB
M83513/03-A07C	100RC09P-5L3DB
M83513/03-A07K	100RK09P-5L3DB
M83513/03-A07N	100RN09P-5L3DB
M83513/03-A07T	100RT09P-5L3DB
M83513/03-A08C	100RC09P-5L3EB
M83513/03-A08K	100RK09P-5L3EB
M83513/03-A08N	100RN09P-5L3EB
M83513/03-A08T	100RT09P-5L3EB
M83513/03-A09A	100RL09P-4F1AB
M83513/03-A09C	100RC09P-4F1AB
M83513/03-A09K	100RK09P-4F1AB
M83513/03-A09N	100RN09P-4F1AB
M83513/03-A09P	104R09P-4F1AB
M83513/03-A09T	100RT09P-4F1AB
M83513/03-A10A	100RL09P-4F1BB
M83513/03-A10C	100RC09P-4F1BB
M83513/03-A10K	100RK09P-4F1BB
M83513/03-A10N	100RN09P-4F1BB
M83513/03-A10P	104R09P-4F1BB
M83513/03-A10T	100RT09P-4F1BB
M83513/03-A11A	100RL09P-4F5AB
M83513/03-A11C	100RC09P-4F5AB
M83513/03-A11K	100RK09P-4F5AB
M83513/03-A11N	100RN09P-4F5AB
M83513/03-A11P	104R09P-4F5AB
M83513/03-A11T	100RT09P-4F5AB
M83513/03-A12A	100RL09P-4F5BB
M83513/03-A12C	100RC09P-4F5BB

PART NUMBER CROSS REFERENCE

MIL SPEC	ACC PN
M83513/04-G15A	100RL51S-4F1CB
M83513/04-G15C	100RC51S-4F1CB
M83513/04-G15K	100RK51S-4F1CB
M83513/04-G15N	100RN51S-4F1CB
M83513/04-G15P	104R51S-4F1CB
M83513/04-G15T	100RT51S-4F1CB
M83513/04-G16A	100RL51S-4F5CB
M83513/04-G16C	100RC51S-4F5CB
M83513/04-G16K	100RK51S-4F5CB
M83513/04-G16N	100RN51S-4F5CB
M83513/04-G16P	104R51S-4F5CB
M83513/04-G16T	100RT51S-4F5CB
M83513/04-H01A	100RL100S-4E1AB
M83513/04-H01C	100RC100S-4E1AB
M83513/04-H01K	100RK100S-4E1AB
M83513/04-H01N	100RN100S-4E1AB
M83513/04-H01P	104R100S-4E1AB
M83513/04-H01T	100RT100S-4E1AB
M83513/04-H02A	100RL100S-4E1BB
M83513/04-H02C	100RC100S-4E1BB
M83513/04-H02K	100RK100S-4E1BB
M83513/04-H02N	100RN100S-4E1BB
M83513/04-H02P	104R100S-4E1BB
M83513/04-H02T	100RT100S-4E1BB
M83513/04-H03A	100RL100S-4E6AB
M83513/04-H03C	100RC100S-4E6AB
M83513/04-H03K	100RK100S-4E6AB
M83513/04-H03N	100RN100S-4E6AB
M83513/04-H03P	104R100S-4E6AB
M83513/04-H03T	100RT100S-4E6AB
M83513/04-H04A	100RL100S-4E6BB
M83513/04-H04C	100RC100S-4E6BB
M83513/04-H04K	100RK100S-4E6BB
M83513/04-H04N	100RN100S-4E6BB
M83513/04-H04P	104R100S-4E6BB
M83513/04-H04T	100RT100S-4E6BB
M83513/04-H05C	100RC100S-5L4DB
M83513/04-H05K	100RK100S-5L4DB
M83513/04-H05N	100RN100S-5L4DB
M83513/04-H05T	100RT100S-5L4DB
M83513/04-H06C	100RC100S-5L4EB
M83513/04-H06K	100RK100S-5L4EB
M83513/04-H06N	100RN100S-5L4EB
M83513/04-H06T	100RT100S-5L4EB
M83513/04-H07C	100RC100S-5L3DB
M83513/04-H07K	100RK100S-5L3DB
M83513/04-H07N	100RN100S-5L3DB
M83513/04-H07T	100RT100S-5L3DB
M83513/04-H08C	100RC100S-5L3EB
M83513/04-H08K	100RK100S-5L3EB
M83513/04-H08N	100RN100S-5L3EB
M83513/04-H08T	100RT100S-5L3EB

MIL SPEC	ACC PN
M83513/04-H09A	100RL100S-4F1AB
M83513/04-H09C	100RC100S-4F1AB
M83513/04-H09K	100RK100S-4F1AB
M83513/04-H09N	100RN100S-4F1AB
M83513/04-H09P	104R100S-4F1AB
M83513/04-H09T	100RT100S-4F1AB
M83513/04-H10A	100RL100S-4F1BB
M83513/04-H10C	100RC100S-4F1BB
M83513/04-H10K	100RK100S-4F1BB
M83513/04-H10N	100RN100S-4F1BB
M83513/04-H10P	104R100S-4F1BB
M83513/04-H10T	100RT100S-4F1BB
M83513/04-H11A	100RL100S-4F5AB
M83513/04-H11C	100RC100S-4F5AB
M83513/04-H11K	100RK100S-4F5AB
M83513/04-H11N	100RN100S-4F5AB
M83513/04-H11P	104R100S-4F5AB
M83513/04-H11T	100RT100S-4F5AB
M83513/04-H12A	100RL100S-4F5BB
M83513/04-H12C	100RC100S-4F5BB
M83513/04-H12K	100RK100S-4F5BB
M83513/04-H12N	100RN100S-4F5BB
M83513/04-H12P	104R100S-4F5BB
M83513/04-H12T	100RT100S-4F5BB
M83513/04-H13A	100RL100S-4E1CB
M83513/04-H13C	100RC100S-4E1CB
M83513/04-H13K	100RK100S-4E1CB
M83513/04-H13N	100RN100S-4E1CB
M83513/04-H13P	104R100S-4E1CB
M83513/04-H13T	100RT100S-4E1CB
M83513/04-H14A	100RL100S-4E6CB
M83513/04-H14C	100RC100S-4E6CB
M83513/04-H14K	100RK100S-4E6CB
M83513/04-H14N	100RN100S-4E6CB
M83513/04-H14P	104R100S-4E6CB
M83513/04-H14T	100RT100S-4E6CB
M83513/04-H15A	100RL100S-4F1CB
M83513/04-H15C	100RC100S-4F1CB
M83513/04-H15K	100RK100S-4F1CB
M83513/04-H15N	100RN100S-4F1CB
M83513/04-H15P	104R100S-4F1CB
M83513/04-H15T	100RT100S-4F1CB
M83513/04-H16A	100RL100S-4F5CB
M83513/04-H16C	100RC100S-4F5CB
M83513/04-H16K	100RK100S-4F5CB
M83513/04-H16N	100RN100S-4F5CB
M83513/04-H16P	104R100S-4F5CB
M83513/04-H16T	100RT100S-4F5CB
M83513/05-02	HM05-02
M83513/05-03	HM05-03
M83513/05-05	HM05-05
M83513/05-06	HM05-06

MIL SPEC	ACC PN
M83513/05-07	HM05-07
M83513/05-12	HM05-12
M83513/05-13	HM05-13
M83513/05-15	HM05-15
M83513/05-16	HM05-16
M83513/05-17	HM05-17
M83513/06-A	101R09P-B
M83513/06-B	101R15P-B
M83513/06-C	101R21P-B
M83513/06-D	101R25P-B
M83513/06-E	101R31P-B
M83513/06-F	101R37P-B
M83513/06-G	101R51P-B
M83513/06-H	101R100P-B
M83513/07-A	101R09S-B
M83513/07-B	101R15S-B
M83513/07-C	101R21S-B
M83513/07-D	101R25S-B
M83513/07-E	101R31S-B
M83513/07-F	101R37S-B
M83513/07-G	101R51S-B
M83513/07-H	101R100S-B
M83513/08-A01	101R09P-4E1AB
M83513/08-A02	101R09P-4E1BB
M83513/08-A03	101R09P-4E6AB
M83513/08-A04	101R09P-4E6BB
M83513/08-A05	101R09P-5L4DB
M83513/08-A06	101R09P-5L4EB
M83513/08-A07	101R09P-5L3DB
M83513/08-A08	101R09P-5L3EB
M83513/08-A09	101R09P-4F1AB
M83513/08-A10	101R09P-4F1BB
M83513/08-A11	101R09P-4F5AB
M83513/08-A12	101R09P-4F5BB
M83513/08-A13	101R09P-4E1CB
M83513/08-A14	101R09P-4E6CB
M83513/08-A15	101R09P-4F1CB
M83513/08-A16	101R09P-4F5CB
M83513/08-B01	101R15P-4E1AB
M83513/08-B02	101R15P-4E1BB
M83513/08-B03	101R15P-4E6AB
M83513/08-B04	101R15P-4E6BB
M83513/08-B05	101R15P-5L4DB
M83513/08-B06	101R15P-5L4EB
M83513/08-B07	101R15P-5L3DB
M83513/08-B08	101R15P-5L3EB
M83513/08-B09	101R15P-4F1AB
M83513/08-B10	101R15P-4F1BB
M83513/08-B11	101R15P-4F5AB
M83513/08-B12	101R15P-4F5BB
M83513/08-B13	101R15P-4E1CB
M83513/08-B14	101R15P-4E6CB

MIL SPEC	ACC PN
M83513/08-B15	101R15P-4F1CB
M83513/08-B16	101R15P-4F5CB
M83513/08-C01	101R21P-4E1AB
M83513/08-C02	101R21P-4E1BB
M83513/08-C03	101R21P-4E6AB
M83513/08-C04	101R21P-4E6BB
M83513/08-C05	101R21P-5L4DB
M83513/08-C06	101R21P-5L4EB
M83513/08-C07	101R21P-5L3DB
M83513/08-C08	101R21P-5L3EB
M83513/08-C09	101R21P-4F1AB
M83513/08-C10	101R21P-4F1BB
M83513/08-C11	101R21P-4F5AB
M83513/08-C12	101R21P-4F5BB
M83513/08-C13	101R21P-4E1CB
M83513/08-C14	101R21P-4E6CB
M83513/08-C15	101R21P-4F1CB
M83513/08-C16	101R21P-4F5CB
M83513/08-D01	101R25P-4E1AB
M83513/08-D02	101R25P-4E1BB
M83513/08-D03	101R25P-4E6AB
M83513/08-D04	101R25P-4E6BB
M83513/08-D05	101R25P-5L4DB
M83513/08-D06	101R25P-5L4EB
M83513/08-D07	101R25P-5L3DB
M83513/08-D08	101R25P-5L3EB
M83513/08-D09	101R25P-4F1AB
M83513/08-D10	101R25P-4F1BB
M83513/08-D11	101R25P-4F5AB
M83513/08-D12	101R25P-4F5BB
M83513/08-D13	101R25P-4E1CB
M83513/08-D14	101R25P-4E6CB
M83513/08-D15	101R25P-4F1CB
M83513/08-D16	101R25P-4F5CB
M83513/08-E01	101R31P-4E1AB
M83513/08-E02	101R31P-4E1BB
M83513/08-E03	101R31P-4E6AB
M83513/08-E04	101R31P-4E6BB
M83513/08-E05	101R31P-5L4DB
M83513/08-E06	101R31P-5L4EB
M83513/08-E07	101R31P-5L3DB
M83513/08-E08	101R31P-5L3EB
M83513/08-E09	101R31P-4F1AB
M83513/08-E10	101R31P-4F1BB
M83513/08-E11	101R31P-4F5AB
M83513/08-E12	101R31P-4F5BB
M83513/08-E13	101R31P-4E1CB
M83513/08-E14	101R31P-4E6CB
M83513/08-E15	101R31P-4F1CB
M83513/08-E16	101R31P-4F5CB
M83513/08-F01	101R37P-4E1AB
M83513/08-F02	101R37P-4E1BB

MIL SPEC	ACC PN
M83513/08-F03	101R37P-4E6AB
M83513/08-F04	101R37P-4E6BB
M83513/08-F05	101R37P-5L4DB
M83513/08-F06	101R37P-5L4EB
M83513/08-F07	101R37P-5L3DB
M83513/08-F08	101R37P-5L3EB
M83513/08-F09	101R37P-4F1AB
M83513/08-F10	101R37P-4F1BB
M83513/08-F11	101R37P-4F5AB
M83513/08-F12	101R37P-4F5BB
M83513/08-F13	101R37P-4E1CB
M83513/08-F14	101R37P-4E6CB
M83513/08-F15	101R37P-4F1CB
M83513/08-F16	101R37P-4F5CB
M83513/08-G01	101R51P-4E1AB
M83513/08-G02	101R51P-4E1BB
M83513/08-G03	101R51P-4E6AB
M83513/08-G04	101R51P-4E6BB
M83513/08-G05	101R51P-5L4DB
M83513/08-G06	101R51P-5L4EB
M83513/08-G07	101R51P-5L3DB
M83513/08-G08	101R51P-5L3EB
M83513/08-G09	101R51P-4F1AB
M83513/08-G10	101R51P-4F1BB
M83513/08-G11	101R51P-4F5AB
M83513/08-G12	101R51P-4F5BB
M83513/08-G13	101R51P-4E1CB
M83513/08-G14	101R51P-4E6CB
M83513/08-G15	101R51P-4F1CB
M83513/08-G16	101R51P-4F5CB
M83513/08-H01	101R100P-4E1AB
M83513/08-H02	101R100P-4E1BB
M83513/08-H03	101R100P-4E6AB
M83513/08-H04	101R100P-4E6BB
M83513/08-H09	101R100P-4F1AB
M83513/08-H10	101R100P-4F1BB
M83513/08-H11	101R100P-4F5AB
M83513/08-H12	101R100P-4F5BB
M83513/08-H13	101R100P-4E1CB
M83513/08-H14	101R100P-4E6CB
M83513/08-H15	101R100P-4F1CB
M83513/08-H16	101R100P-4F5CB
M83513/09-A01	101R09S-4E1AB
M83513/09-A02	101R09S-4E1BB
M83513/09-A03	101R09S-4E6AB
M83513/09-A04	101R09S-4E6BB
M83513/09-A05	101R09S-5L4DB
M83513/09-A06	101R09S-5L4EB
M83513/09-A08	101R09S-5L3EB
M83513/09-A09	101R09S-4F1AB
M83513/09-A10	101R09S-4F1BB

MIL SPEC	ACC PN
M83513/09-A11	101R09S-4F5AB
M83513/09-A12	101R09S-4F5BB
M83513/09-A13	101R09S-4E1CB
M83513/09-A14	101R09S-4E6CB
M83513/09-A15	101R09S-4F1CB
M83513/09-A16	101R09S-4F5CB
M83513/09-B01	101R15S-4E1AB
M83513/09-B02	101R15S-4E1BB
M83513/09-B03	101R15S-4E6AB
M83513/09-B04	101R15S-4E6BB
M83513/09-B05	101R15S-5L4DB
M83513/09-B06	101R15S-5L4EB
M83513/09-B07	101R15S-5L3DB
M83513/09-B08	101R15S-5L3EB
M83513/09-B09	101R15S-4F1AB
M83513/09-B10	101R15S-4F1BB
M83513/09-B11	101R15S-4F5AB
M83513/09-B12	101R15S-4F5BB
M83513/09-B13	101R15S-4E1CB
M83513/09-B14	101R15S-4E6CB
M83513/09-B15	101R15S-4F1CB
M83513/09-B16	101R15S-4F5CB
M83513/09-C01	101R21S-4E1AB
M83513/09-C02	101R21S-4E1BB
M83513/09-C03	101R21S-4E6AB
M83513/09-C04	101R21S-4E6BB
M83513/09-C05	101R21S-5L4DB
M83513/09-C06	101R21S-5L4EB
M83513/09-C07	101R21S-5L3DB
M83513/09-C08	101R21S-5L3EB
M83513/09-C09	101R21S-4F1AB
M83513/09-C10	101R21S-4F1BB
M83513/09-C11	101R21S-4F5AB
M83513/09-C12	101R21S-4F5BB
M83513/09-C13	101R21S-4E1CB
M83513/09-C14	101R21S-4E6CB
M83513/09-C15	101R21S-4F1CB
M83513/09-C16	101R21S-4F5CB
M83513/09-D01	101R25S-4E1AB
M83513/09-D02	101R25S-4E1BB
M83513/09-D03	101R25S-4E6AB
M83513/09-D04	101R25S-4E6BB
M83513/09-D05	101R25S-5L4DB
M83513/09-D06	101R25S-5L4EB
M83513/09-D07	101R25S-5L3DB
M83513/09-D08	101R25S-5L3EB
M83513/09-D09	101R25S-4F1AB
M83513/09-D10	101R25S-4F1BB
M83513/09-D11	101R25S-4F5AB
M83513/09-D12	101R25S-4F5BB
M83513/09-D13	101R25S-4E

PART NUMBER CROSS REFERENCE

MIL SPEC	ACC PN
M83513/09-D15	101R25S-4F1CB
M83513/09-D16	101R25S-4F5CB
M83513/09-E01	101R31S-4E1AB
M83513/09-E02	101R31S-4E1BB
M83513/09-E03	101R31S-4E6AB
M83513/09-E04	101R31S-4E6BB
M83513/09-E05	101R31S-5L4DB
M83513/09-E06	101R31S-5L4EB
M83513/09-E07	101R31S-5L3DB
M83513/09-E08	101R31S-5L3EB
M83513/09-E09	101R31S-4F1AB
M83513/09-E10	101R31S-4F1BB
M83513/09-E11	101R31S-4F5AB
M83513/09-E12	101R31S-4F5BB
M83513/09-E13	101R31S-4E1CB
M83513/09-E14	101R31S-4E6CB
M83513/09-E15	101R31S-4F1CB
M83513/09-E16	101R31S-4F5CB
M83513/09-F01	101R37S-4E1AB
M83513/09-F02	101R37S-4E1BB
M83513/09-F03	101R37S-4E6AB
M83513/09-F04	101R37S-4E6BB
M83513/09-F05	101R37S-5L4DB
M83513/09-F06	101R37S-5L4EB
M83513/09-F07	101R37S-5L3DB
M83513/09-F08	101R37S-5L3EB
M83513/09-F09	101R37S-4F1AB
M83513/09-F10	101R37S-4F1BB
M83513/09-F11	101R37S-4F5AB
M83513/09-F12	101R37S-4F5BB
M83513/09-F13	101R37S-4E1CB
M83513/09-F14	101R37S-4E6CB
M83513/09-F15	101R37S-4F1CB
M83513/09-F16	101R37S-4F5CB
M83513/09-G01	101R51S-4E1AB
M83513/09-G02	101R51S-4E1BB
M83513/09-G03	101R51S-4E6AB
M83513/09-G04	101R51S-4E6BB
M83513/09-G05	101R51S-5L4DB
M83513/09-G06	101R51S-5L4EB
M83513/09-G07	101R51S-5L3DB
M83513/09-G08	101R51S-5L3EB
M83513/09-G09	101R51S-4F1AB
M83513/09-G10	101R51S-4F1BB
M83513/09-G11	101R51S-4F5AB
M83513/09-G12	101R51S-4F5BB
M83513/09-G13	101R51S-4E1CB
M83513/09-G14	101R51S-4E6CB
M83513/09-G15	101R51S-4F1CB
M83513/09-G16	101R51S-4F5CB
M83513/09-H01	101R100S-4E1AB
M83513/09-H02	101R100S-4E1BB

MIL SPEC	ACC PN
M83513/09-H03	101R100S-4E6AB
M83513/09-H04	101R100S-4E6BB
M83513/09-H09	101R100S-4F1AB
M83513/09-H10	101R100S-4F1BB
M83513/09-H11	101R100S-4F5AB
M83513/09-H12	101R100S-4F5BB
M83513/09-H13	101R100S-4E1CB
M83513/09-H14	101R100S-4E6CB
M83513/09-H15	101R100S-4F1CB
M83513/09-H16	101R100S-4F5CB
M83513/10-A01AP	100RL09P-CBRP1
M83513/10-A01AN	100RL09P-CBR1
M83513/10-A01AT	100RL09P-CBRT1
M83513/10-A01AW	100RL09P-CBRPT1
M83513/10-A01CN	100RC09P-CBR1
M83513/10-A01CP	100RC09P-CBRP1
M83513/10-A01CT	100RC09P-CBRT1
M83513/10-A01CW	100RC09P-CBRPT1
M83513/10-A01KN	100RK09P-CBR1
M83513/10-A01KP	100RK09P-CBRP1
M83513/10-A01KT	100RK09P-CBRT1
M83513/10-A01KW	100RK09P-CBRPT1
M83513/10-A01NN	100RN09P-CBR1
M83513/10-A01NP	100RN09P-CBRP1
M83513/10-A01NT	100RN09P-CBRT1
M83513/10-A01NW	100RN09P-CBRPT1
M83513/10-A01PN	104R09P-CBR1
M83513/10-A01PP	104R09P-CBRP1
M83513/10-A01PT	104R09P-CBRT1
M83513/10-A01PW	104R09P-CBRPT1
M83513/10-A01TP	100RT09P-CBRP1
M83513/10-A01TN	100RT09P-CBR1
M83513/10-A01TT	100RT09P-CBRT1
M83513/10-A01TW	100RT09P-CBRPT1
M83513/10-A02AP	100RL09P-CBRP2
M83513/10-A02AN	100RL09P-CBR2
M83513/10-A02AT	100RL09P-CBRT2
M83513/10-A02AW	100RL09P-CBRPT2
M83513/10-A02CN	100RC09P-CBR2
M83513/10-A02CP	100RC09P-CBRP2
M83513/10-A02CT	100RC09P-CBRT2
M83513/10-A02CW	100RC09P-CBRPT2
M83513/10-A02KN	100RK09P-CBR2
M83513/10-A02KP	100RK09P-CBRP2
M83513/10-A02KT	100RK09P-CBRT2
M83513/10-A02KW	100RK09P-CBRPT2
M83513/10-A02NN	100RN09P-CBR2
M83513/10-A02NP	100RN09P-CBRP2
M83513/10-A02NT	100RN09P-CBRT2
M83513/10-A02NW	100RN09P-CBRPT2
M83513/10-A02PN	104R09P-CBR2
M83513/10-A02PP	104R09P-CBRP2

MIL SPEC	ACC PN
M83513/10-A02PT	104R09P-CBRT2
M83513/10-A02PW	104R09P-CBRPT2
M83513/10-A02TP	100RT09P-CBRP2
M83513/10-A02TN	100RT09P-CBR2
M83513/10-A02TT	100RT09P-CBRT2
M83513/10-A02TW	100RT09P-CBRPT2
M83513/10-A03AP	100RL09P-CBRP3
M83513/10-A03AN	100RL09P-CBR3
M83513/10-A03AT	100RL09P-CBRT3
M83513/10-A03AW	100RL09P-CBRPT3
M83513/10-A03CN	100RC09P-CBR3
M83513/10-A03CP	100RC09P-CBRP3
M83513/10-A03CT	100RC09P-CBRT3
M83513/10-A03CW	100RC09P-CBRPT3
M83513/10-A03KN	100RK09P-CBR3
M83513/10-A03KP	100RK09P-CBRP3
M83513/10-A03KT	100RK09P-CBRT3
M83513/10-A03KW	100RK09P-CBRPT3
M83513/10-A03NN	100RN09P-CBR3
M83513/10-A03NP	100RN09P-CBRP3
M83513/10-A03NT	100RN09P-CBRT3
M83513/10-A03NW	100RN09P-CBRPT3
M83513/10-A03PN	104R09P-CBR3
M83513/10-A03PP	104R09P-CBRP3
M83513/10-A03PT	104R09P-CBRT3
M83513/10-A03PW	104R09P-CBRPT3
M83513/10-A03TP	100RT09P-CBRP3
M83513/10-A03TN	100RT09P-CBR3
M83513/10-A03TT	100RT09P-CBRT3
M83513/10-A03TW	100RT09P-CBRPT3
M83513/10-B01AP	100RL15P-CBRP1
M83513/10-B01AN	100RL15P-CBR1
M83513/10-B01AT	100RL15P-CBRT1
M83513/10-B01AW	100RL15P-CBRPT1
M83513/10-B01CN	100RC15P-CBR1
M83513/10-B01CP	100RC15P-CBRP1
M83513/10-B01CT	100RC15P-CBRT1
M83513/10-B01CW	100RC15P-CBRPT1
M83513/10-B01KN	100RK15P-CBR1
M83513/10-B01KP	100RK15P-CBRP1
M83513/10-B01KT	100RK15P-CBRT1
M83513/10-B01KW	100RK15P-CBRPT1
M83513/10-B01NN	100RN15P-CBR1
M83513/10-B01NP	100RN15P-CBRP1
M83513/10-B01NT	100RN15P-CBRT1
M83513/10-B01NW	100RN15P-CBRPT1
M83513/10-B01PN	104R15P-CBR1
M83513/10-B01PP	104R15P-CBRP1
M83513/10-B01PT	104R15P-CBRT1
M83513/10-B01PW	104R15P-CBRPT1
M83513/10-B01TP	100RT15P-CBRP1
M83513/10-B01TN	100RT15P-CBR1

MIL SPEC	ACC PN
M83513/10-B01TT	100RT15P-CBRT1
M83513/10-B01TW	100RT15P-CBRPT1
M83513/10-B02AP	100RL15P-CBRP2
M83513/10-B02AN	100RL15P-CBR2
M83513/10-B02AT	100RL15P-CBRT2
M83513/10-B02AW	100RL15P-CBRPT2
M83513/10-B02CN	100RC15P-CBR2
M83513/10-B02CP	100RC15P-CBRP2
M83513/10-B02CT	100RC15P-CBRT2
M83513/10-B02CW	100RC15P-CBRPT2
M83513/10-B02KN	100RK15P-CBR2
M83513/10-B02KP	100RK15P-CBRP2
M83513/10-B02KT	100RK15P-CBRT2
M83513/10-B02KW	100RK15P-CBRPT2
M83513/10-B02NN	100RN15P-CBR2
M83513/10-B02NP	100RN15P-CBRP2
M83513/10-B02NT	100RN15P-CBRT2
M83513/10-B02NW	100RN15P-CBRPT2
M83513/10-B02PN	104R15P-CBR2
M83513/10-B02PP	104R15P-CBRP2
M83513/10-B02PT	104R15P-CBRT2
M83513/10-B02PW	104R15P-CBRPT2
M83513/10-B02TP	100RT15P-CBRP2
M83513/10-B02TN	100RT15P-CBR2
M83513/10-B02TT	100RT15P-CBRT2
M83513/10-B02TW	100RT15P-CBRPT2
M83513/10-B03AP	100RL15P-CBRP3
M83513/10-B03AN	100RL15P-CBR3
M83513/10-B03AT	100RL15P-CBRT3
M83513/10-B03AW	100RL15P-CBRPT3
M83513/10-B03CN	100RC15P-CBR3
M83513/10-B03CP	100RC15P-CBRP3
M83513/10-B03CT	100RC15P-CBRT3
M83513/10-B03CW	100RC15P-CBRPT3
M83513/10-B03KN	100RK15P-CBR3
M83513/10-B03KP	100RK15P-CBRP3
M83513/10-B03KT	100RK15P-CBRT3
M83513/10-B03KW	100RK15P-CBRPT3
M83513/10-B03NN	100RN15P-CBR3
M83513/10-B03NP	100RN15P-CBRP3
M83513/10-B03NT	100RN15P-CBRT3
M83513/10-B03NW	100RN15P-CBRPT3
M83513/10-B03PN	104R15P-CBR3
M83513/10-B03PP	104R15P-CBRP3
M83513/10-B03PT	104R15P-CBRT3
M83513/10-B03PW	104R15P-CBRPT3
M83513/10-B03TP	100RT15P-CBRP3
M83513/10-B03TN	100RT15P-CBR3
M83513/10-B03TT	100RT15P-CBRT3
M83513/10-B03TW	100RT15P-CBRPT3
M83513/10-C01AP	100RL21P-CBRP1
M83513/10-C01AN	100RL21P-CBR1

MIL SPEC	ACC PN
M83513/10-C01AT	100RL21P-CBRT1
M83513/10-C01AW	100RL21P-CBRPT1
M83513/10-C01CN	100RC21P-CBR1
M83513/10-C01CP	100RC21P-CBRP1
M83513/10-C01CT	100RC21P-CBRT1
M83513/10-C01CW	100RC21P-CBRPT1
M83513/10-C01KN	100RK21P-CBR1
M83513/10-C01KP	100RK21P-CBRP1
M83513/10-C01KT	100RK21P-CBRT1
M83513/10-C01KW	100RK21P-CBRPT1
M83513/10-C01NN	100RN21P-CBR1
M83513/10-C01NP	100RN21P-CBRP1
M83513/10-C01NT	100RN21P-CBRT1
M83513/10-C01NW	100RN21P-CBRPT1
M83513/10-C01PN	104R21P-CBR1
M83513/10-C01PP	104R21P-CBRP1
M83513/10-C01PT	104R21P-CBRT1
M83513/10-C01PW	104R21P-CBRPT1
M83513/10-C01TP	100RT21P-CBRP1
M83513/10-C01TN	100RT21P-CBR1
M83513/10-C01TT	100RT21P-CBRT1
M83513/10-C01TW	100RT21P-CBRPT1
M83513/10-C02AP	100RL21P-CBRP2
M83513/10-C02AN	100RL21P-CBR2
M83513/10-C02AT	100RL21P-CBRT2
M83513/10-C02AW	100RL21P-CBRPT2
M83513/10-C02CN	100RC21P-CBR2
M83513/10-C02CP	100RC21P-CBRP2
M83513/10-C02CT	100RC21P-CBRT2
M83513/10-C02CW	100RC21P-CBRPT2
M83513/10-C02KN	100RK21P-CBR2
M83513/10-C02KP	100RK21P-CBRP2
M83513/10-C02KT	100RK21P-CBRT2
M83513/10-C02KW	100RK21P-CBRPT2
M83513/10-C02NN	100RN21P-CBR2
M83513/10-C02NP	100RN21P-CBRP2
M83513/10-C02NT	100RN21P-CBRT2
M83513/10-C02NW	100RN21P-CBRPT2
M83513/10-C02PN	104R21P-CBR2
M83513/10-C02PP	104R21P-CBRP2
M83513/10-C02PT	104R21P-CBRT2
M83513/10-C02PW	104R21P-CBRPT2
M83513/10-C02TP	100RT21P-CBRP2
M83513/10-C02TN	100RT21P-CBR2
M83513/10-C02TT	100RT21P-CBRT2
M83513/10-C02TW	100RT21P-CBRPT2
M83513/10-C03AP	100RL21P-CBRP3
M83513/10-C03AN	100RL21P-CBR3
M83513/10-C03AT	100RL21P-CBRT3
M83513/10-C03AW	100RL21P-CBRPT3
M83513/10-C03CN	100RC21P-CBR3
M83513/10-C03CP	100RC21P-CBRP3

MIL SPEC	ACC PN
M83513/10-C03CT	100RC21P-CBRT3
M83513/10-C03CW	100RC21P-CBRPT3
M83513/10-C03KN	100RK21P-CBR3
M83513/10-C03KP	100RK21P-CBRP3
M83513/10-C03KT	100RK21P-CBRT3
M83513/10-C03KW	100RK21P-CBRPT3
M83513/10-C03NN	100RN21P-CBR3
M83513/10-C03NP	100RN21P-CBRP3
M83513/10-C03NT	100RN21P-CBRT3
M83513/10-C03NW	100RN21P-CBRPT3
M83513/10-C03PN	104R21P-CBR3
M83513/10-C03PP	104R21P-CBRP3
M83513/10-C03PT	104R21P-CBRT3
M83513/10-C03PW	104R21P-CBRPT3
M83513/10-C03TP	100RT21P-CBRP3
M83513/10-C03TN	100RT21P-CBR3
M83513/10-C03TT	100RT21P-CBRT3
M83513/10-C03TW	100RT21P-CBRPT3
M83513/10-D01AP	100RL25P-CBRP1
M83513/10-D01AN	100RL25P-CBR1
M83513/10-D01AT	100RL25P-CBRT1
M83513/10-D01AW	100RL25P-CBRPT1
M83513/10-D01CN	100RC25P-CBR1
M83513/10-D01CP	100RC25P-CBRP1
M83513/10-D01CT	100RC25P-CBRT1
M83513/10-D01CW	100RC25P-CBRPT1
M83513/10-D01KN	100RK25P-CBR1
M83513/10-D01KP	100RK25P-CBRP1
M83513/10-D01KT	100RK25P-CBRT1
M83513/10-D01KW	100RK25P-CBRPT1
M83513/10-D01NN	100RN25P-CBR1
M83513/10-D01NP	100RN25P-CBRP1
M83513/10-D01NT	100RN25P-CBRT1
M83513/10-D01NW	100RN25P-CBRPT1
M83513/10-D01PN	104R25P-CBR1
M83513/10-D01PP	104R25P-CBRP1
M83513/10-D01PT	104R25P-CBRT1
M83513/10-D01PW	104R25P-CBRPT1
M83513/10-D01TP	100RT25P-CBRP1
M83513/10-D01TN	100RT25P-CBR1
M83513/10-D01TT	100RT25P-CBRT1
M83513/10-D01TW	100RT25P-CBRPT1
M83513/10-D02AP	100RL25P-CBRP2
M83513/10-D02AN	100RL25P-CBR2
M83513/10-D02AT	100RL25P-CBRT2
M83513/10-D02AW	100RL25P-CBRPT2
M83513/10-D02CN	100RC25P-CBR2
M83513/10-D02CP	100RC25P-CBRP2
M83513/10-D02CT	100RC25P-CBRT2
M83513/10-D02CW	100RC25P-CBRPT2
M83513/10-D02KN	100RK25P-CBR2
M83513/10-D02KP	100RK25P-CBRP2

PART NUMBER CROSS REFERENCE

MIL SPEC	ACC PN
M83513/16-E03KT	100RK31P-BRT3
M83513/16-E03KW	100RK31P-BRPT3
M83513/16-E03NN	100RN31P-BR3
M83513/16-E03NP	100RN31P-BRP3
M83513/16-E03NT	100RN31P-BRT3
M83513/16-E03NW	100RN31P-BRPT3
M83513/16-E03PN	104R31P-BR3
M83513/16-E03PP	104R31P-BRP3
M83513/16-E03PT	104R31P-BRT3
M83513/16-E03PW	104R31P-BRPT3
M83513/16-E03TP	100RT31P-BRP3
M83513/16-E03TN	100RT31P-BR3
M83513/16-E03TT	100RT31P-BRT3
M83513/16-E03TW	100RT31P-BRPT3
M83513/16-F01AP	100RL37P-BRP1
M83513/16-F01AN	100RL37P-BR1
M83513/16-F01AT	100RL37P-BRT1
M83513/16-F01AW	100RL37P-BRPT1
M83513/16-F01CN	100RC37P-BR1
M83513/16-F01CP	100RC37P-BRP1
M83513/16-F01CT	100RC37P-BRT1
M83513/16-F01CW	100RC37P-BRPT1
M83513/16-F01KN	100RK37P-BR1
M83513/16-F01KP	100RK37P-BRP1
M83513/16-F01KT	100RK37P-BRT1
M83513/16-F01KW	100RK37P-BRPT1
M83513/16-F01NN	100RN37P-BR1
M83513/16-F01NP	100RN37P-BRP1
M83513/16-F01NT	100RN37P-BRT1
M83513/16-F01NW	100RN37P-BRPT1
M83513/16-F01PN	104R37P-BR1
M83513/16-F01PP	104R37P-BRP1
M83513/16-F01PT	104R37P-BRT1
M83513/16-F01PW	104R37P-BRPT1
M83513/16-F01TP	100RT37P-BRP1
M83513/16-F01TN	100RT37P-BR1
M83513/16-F01TT	100RT37P-BRT1
M83513/16-F01TW	100RT37P-BRPT1
M83513/16-F02AP	100RL37P-BRP2
M83513/16-F02AN	100RL37P-BR2
M83513/16-F02AT	100RL37P-BRT2
M83513/16-F02AW	100RL37P-BRPT2
M83513/16-F02CN	100RC37P-BR2
M83513/16-F02CP	100RC37P-BRP2
M83513/16-F02CT	100RC37P-BRT2
M83513/16-F02CW	100RC37P-BRPT2
M83513/16-F02KN	100RK37P-BR2
M83513/16-F02KP	100RK37P-BRP2
M83513/16-F02KT	100RK37P-BRT2
M83513/16-F02KW	100RK37P-BRPT2
M83513/16-F02NN	100RN37P-BR2
M83513/16-F02NP	100RN37P-BRP2

MIL SPEC	ACC PN
M83513/16-F02NT	100RN37P-BRT2
M83513/16-F02NW	100RN37P-BRPT2
M83513/16-F02PN	104R37P-BR2
M83513/16-F02PP	104R37P-BRP2
M83513/16-F02PT	104R37P-BRT2
M83513/16-F02PW	104R37P-BRPT2
M83513/16-F02TP	100RT37P-BRP2
M83513/16-F02TN	100RT37P-BR2
M83513/16-F02TT	100RT37P-BRT2
M83513/16-F02TW	100RT37P-BRPT2
M83513/16-F03AP	100RL37P-BRP3
M83513/16-F03AN	100RL37P-BR3
M83513/16-F03AT	100RL37P-BRT3
M83513/16-F03AW	100RL37P-BRPT3
M83513/16-F03CN	100RC37P-BR3
M83513/16-F03CP	100RC37P-BRP3
M83513/16-F03CT	100RC37P-BRT3
M83513/16-F03CW	100RC37P-BRPT3
M83513/16-F03KN	100RK37P-BR3
M83513/16-F03KP	100RK37P-BRP3
M83513/16-F03KT	100RK37P-BRT3
M83513/16-F03KW	100RK37P-BRPT3
M83513/16-F03NN	100RN37P-BR3
M83513/16-F03NP	100RN37P-BRP3
M83513/16-F03NT	100RN37P-BRT3
M83513/16-F03NW	100RN37P-BRPT3
M83513/16-F03PN	104R37P-BR3
M83513/16-F03PP	104R37P-BRP3
M83513/16-F03PT	104R37P-BRT3
M83513/16-F03PW	104R37P-BRPT3
M83513/16-F03TP	100RT37P-BRP3
M83513/16-F03TN	100RT37P-BR3
M83513/16-F03TT	100RT37P-BRT3
M83513/16-F03TW	100RT37P-BRPT3
M83513/17-G01AP	100RL51P-BRP1
M83513/17-G01AN	100RL51P-BR1
M83513/17-G01AT	100RL51P-BRT1
M83513/17-G01AW	100RL51P-BRPT1
M83513/17-G01CN	100RC51P-BR1
M83513/17-G01CP	100RC51P-BRP1
M83513/17-G01CT	100RC51P-BRT1
M83513/17-G01CW	100RC51P-BRPT1
M83513/17-G01KN	100RK51P-BR1
M83513/17-G01KP	100RK51P-BRP1
M83513/17-G01KT	100RK51P-BRT1
M83513/17-G01KW	100RK51P-BRPT1
M83513/17-G01NN	100RN51P-BR1
M83513/17-G01NP	100RN51P-BRP1
M83513/17-G01NT	100RN51P-BRT1
M83513/17-G01NW	100RN51P-BRPT1
M83513/17-G01PN	104R51P-BR1
M83513/17-G01PP	104R51P-BRP1

MIL SPEC	ACC PN
M83513/17-G01PT	104R51P-BRT1
M83513/17-G01PW	104R51P-BRPT1
M83513/17-G01TP	100RT51P-BRP1
M83513/17-G01TN	100RT51P-BR1
M83513/17-G01TT	100RT51P-BRT1
M83513/17-G01TW	100RT51P-BRPT1
M83513/17-G02AP	100RL51P-BRP2
M83513/17-G02AN	100RL51P-BR2
M83513/17-G02AT	100RL51P-BRT2
M83513/17-G02AW	100RL51P-BRPT2
M83513/17-G02CN	100RC51P-BR2
M83513/17-G02CP	100RC51P-BRP2
M83513/17-G02CT	100RC51P-BRT2
M83513/17-G02CW	100RC51P-BRPT2
M83513/17-G02KN	100RK51P-BR2
M83513/17-G02KP	100RK51P-BRP2
M83513/17-G02KT	100RK51P-BRT2
M83513/17-G02KW	100RK51P-BRPT2
M83513/17-G02NN	100RN51P-BR2
M83513/17-G02NP	100RN51P-BRP2
M83513/17-G02NT	100RN51P-BRT2
M83513/17-G02NW	100RN51P-BRPT2
M83513/17-G02PN	104R51P-BR2
M83513/17-G02PP	104R51P-BRP2
M83513/17-G02PT	104R51P-BRT2
M83513/17-G02PW	104R51P-BRPT2
M83513/17-G02TP	100RT51P-BRP2
M83513/17-G02TN	100RT51P-BR2
M83513/17-G02TT	100RT51P-BRT2
M83513/17-G02TW	100RT51P-BRPT2
M83513/17-G03AP	100RL51P-BRP3
M83513/17-G03AN	100RL51P-BR3
M83513/17-G03AT	100RL51P-BRT3
M83513/17-G03AW	100RL51P-BRPT3
M83513/17-G03CN	100RC51P-BR3
M83513/17-G03CP	100RC51P-BRP3
M83513/17-G03CT	100RC51P-BRT3
M83513/17-G03CW	100RC51P-BRPT3
M83513/17-G03KN	100RK51P-BR3
M83513/17-G03KP	100RK51P-BRP3
M83513/17-G03KT	100RK51P-BRT3
M83513/17-G03KW	100RK51P-BRPT3
M83513/17-G03NN	100RN51P-BR3
M83513/17-G03NP	100RN51P-BRP3
M83513/17-G03NT	100RN51P-BRT3
M83513/17-G03NW	100RN51P-BRPT3
M83513/17-G03PN	104R51P-BR3
M83513/17-G03PP	104R51P-BRP3
M83513/17-G03PT	104R51P-BRT3
M83513/17-G03PW	104R51P-BRPT3
M83513/17-G03TP	100RT51P-BRP3
M83513/17-G03TN	100RT51P-BR3

MIL SPEC	ACC PN
M83513/17-G03TT	100RT51P-BRT3
M83513/17-G03TW	100RT51P-BRPT3
M83513/18-H01AP	100RL100P-BRP1
M83513/18-H01AN	100RL100P-BR1
M83513/18-H01AU	100RL100P-BRU1
M83513/18-H01AY	100RL100P-BRPU1
M83513/18-H01CN	100RC100P-BR1
M83513/18-H01CP	100RC100P-BRP1
M83513/18-H01CU	100RC100P-BRU1
M83513/18-H01CY	100RC100P-BRPU1
M83513/18-H01KN	100RK100P-BR1
M83513/18-H01KP	100RK100P-BRP1
M83513/18-H01KU	100RK100P-BRU1
M83513/18-H01KY	100RK100P-BRPU1
M83513/18-H01NN	100RN100P-BR1
M83513/18-H01NP	100RN100P-BRP1
M83513/18-H01NU	100RN100P-BRU1
M83513/18-H01NY	100RN100P-BRPU1
M83513/18-H01PN	104R100P-BR1
M83513/18-H01PP	104R100P-BRP1
M83513/18-H01PU	104R100P-BRU1
M83513/18-H01PY	104R100P-BRPU1
M83513/18-H01TP	100RT100P-BRP1
M83513/18-H01TN	100RT100P-BR1
M83513/18-H01TU	100RT100P-BRU1
M83513/18-H01TY	100RT100P-BRPU1
M83513/18-H02AP	100RL100P-BRP2
M83513/18-H02AN	100RL100P-BR2
M83513/18-H02AU	100RL100P-BRU2
M83513/18-H02AY	100RL100P-BRPU2
M83513/18-H02CN	100RC100P-BR2
M83513/18-H02CP	100RC100P-BRP2
M83513/18-H02CU	100RC100P-BRU2
M83513/18-H02CY	100RC100P-BRPU2
M83513/18-H02KN	100RK100P-BR2
M83513/18-H02KP	100RK100P-BRP2
M83513/18-H02KU	100RK100P-BRU2
M83513/18-H02KY	100RK100P-BRPU2
M83513/18-H02NN	100RN100P-BR2
M83513/18-H02NP	100RN100P-BRP2
M83513/18-H02NU	100RN100P-BRU2
M83513/18-H02NY	100RN100P-BRPU2
M83513/18-H02PN	104R100P-BR2
M83513/18-H02PP	104R100P-BRP2
M83513/18-H02PU	104R100P-BRU2
M83513/18-H02PY	104R100P-BRPU2
M83513/18-H02TP	100RT100P-BRP2
M83513/18-H02TN	100RT100P-BR2
M83513/18-H02TU	100RT100P-BRU2
M83513/18-H02TY	100RT100P-BRPU2
M83513/18-H03AP	100RL100P-BRP3
M83513/18-H03AN	100RL100P-BR3

MIL SPEC	ACC PN
M83513/18-H03AU	100RL100P-BRU3
M83513/18-H03AY	100RL100P-BRPU3
M83513/18-H03CN	100RC100P-BR3
M83513/18-H03CP	100RC100P-BRP3
M83513/18-H03CU	100RC100P-BRU3
M83513/18-H03CY	100RC100P-BRPU3
M83513/18-H03KN	100RK100P-BR3
M83513/18-H03KP	100RK100P-BRP3
M83513/18-H03KU	100RK100P-BRU3
M83513/18-H03KY	100RK100P-BRPU3
M83513/18-H03NN	100RN100P-BR3
M83513/18-H03NP	100RN100P-BRP3
M83513/18-H03NU	100RN100P-BRU3
M83513/18-H03NY	100RN100P-BRPU3
M83513/18-H03PN	104R100P-BR3
M83513/18-H03PP	104R100P-BRP3
M83513/18-H03PU	104R100P-BRU3
M83513/18-H03PY	104R100P-BRPU3
M83513/18-H03TP	100RT100P-BRP3
M83513/18-H03TN	100RT100P-BR3
M83513/18-H03TU	100RT100P-BRU3
M83513/18-H03TY	100RT100P-BRPU3
M83513/19-A01AP	100RL09S-BRP1
M83513/19-A01AN	100RL09S-BR1
M83513/19-A01AT	100RL09S-BRT1
M83513/19-A01AW	100RL09S-BRPT1
M83513/19-A01CN	100RC09S-BR1
M83513/19-A01CP	100RC09S-BRP1
M83513/19-A01CT	100RC09S-BRT1
M83513/19-A01CW	100RC09S-BRPT1
M83513/19-A01KN	100RK09S-BR1
M83513/19-A01KP	100RK09S-BRP1
M83513/19-A01KT	100RK09S-BRT1
M83513/19-A01KW	100RK09S-BRPT1
M83513/19-A01NN	100RN09S-BR1
M83513/19-A01NP	100RN09S-BRP1
M83513/19-A01NT	100RN09S-BRT1
M83513/19-A01NW	100RN09S-BRPT1
M83513/19-A01PN	104R09S-BR1
M83513/19-A01PP	104R09S-BRP1
M83513/19-A01PT	104R09S-BRT1
M83513/19-A01PW	104R09S-BRPT1
M83513/19-A01TP	100RT09S-BRP1
M83513/19-A01TN	100RT09S-BR1
M83513/19-A01TT	100RT09S-BRT1
M83513/19-A01TW	100RT09S-BRPT1
M83513/19-A02AP	100RL09S-BRP2
M83513/19-A02AN	100RL09S-BR2
M83513/19-A02AT	100RL09S-BRT2
M83513/19-A02AW	100RL09S-BRPT2
M83513/19-A02CN	100RC09S-BR2
M83513/19-A02CP	100RC09S-BRP2

MIL SPEC	ACC PN
M83513/19-A02CT	100RC09S-BRT2
M83513/19-A02CW	100RC09S-BRPT2
M83513/19-A02KN	100RK09S-BR2
M83513/19-A02KP	100RK09S-BRP2
M83513/19-A02KT	100RK09S-BRT2
M83513/19-A02KW	100RK09S-BRPT2
M83513/19-A02NN	100RN09S-BR2
M83513/19-A02NP	100RN09S-BRP2
M83513/19-A02NT	100RN09S-BRT2
M83513/19-A02NW	100RN09S-BRPT2
M83513/19-A02PN	104R09S-BR2
M83513/19-A02PP	104R09S-BRP2
M83513/19-A02PT	104R09S-BRT2
M83513/19-A02PW	104R09S-BRPT2
M83513/19-A02TP	100RT09S-BRP2
M83513/19-A02TN	100RT09S-BR2
M83513/19-A02TT	100RT09S-BRT2
M83513/19-A02TW	100RT09S-BRPT2
M83513/19-A03AP	100RL09S-BRP3
M83513/19-A03AN	100RL09S-BR3
M83513/19-A03AT	100RL09S-BRT3
M83513/19-A03AW	100RL09S-BRPT3
M83513/19-A03CN	100RC09S-BR3
M83513/19-A03CP	100RC09S-BRP3
M83513/19-A03CT	100RC09S-BRT3
M83513/19-A03CW	100RC09S-BRPT3
M83513/19-A03KN	100RK09S-BR3
M83513/19-A03KP	100RK09S-BRP3
M83513/19-A03KT	100RK09S-BRT3
M83513/19-A03KW	100RK09S-BRPT3
M83513/19-A03NN	100RN09S-BR3
M83513/19-A03NP	100RN09S-BRP3
M83513/19-A03NT	100RN09S-BRT3
M83513/19-A03NW	100RN09S-BRPT3
M83513/19-A03PN	104R09S-BR3
M83513/19-A03PP	104R09S-BRP3
M83513/19-A03PT	104R09S-BRT3
M83513/19-A03PW	104R09S-BRPT3
M83513/19-A03TP	100RT09S-BRP3
M83513/19-A03TN	100RT09S-BR3
M83513/19-A03TT	100RT09S-BRT3
M83513/19-A03TW	100RT09S-BRPT3
M83513/19-B01AP	100RL15S-BRP1
M83513/19-B01AN	100RL15S-BR1
M83513/19-B01AT	100RL15S-BRT1
M83513/19-B01AW	100RL15S-BRPT1
M83513/19-B01CN	100RC15S-BR1
M83513/19-B01CP	100RC15S-BRP1
M83513/19-B01CT	100RC15S-BRT1
M83513/19-B01CW	100RC15S-BRPT1
M83513/19-B01KN	100RK15S-BR1
M83513/19-B01KP	100RK15S-BRP1

PART NUMBER CROSS REFERENCE

MIL SPEC	ACC PN
M83513/19-F02KT	100RK37S-BRT2
M83513/19-F02KW	100RK37S-BRPT2
M83513/19-F02NN	100RN37S-BR2
M83513/19-F02NP	100RN37S-BRP2
M83513/19-F02NT	100RN37S-BRT2
M83513/19-F02NW	100RN37S-BRPT2
M83513/19-F02PN	104R37S-BR2
M83513/19-F02PP	104R37S-BRP2
M83513/19-F02PT	104R37S-BRT2
M83513/19-F02PW	104R37S-BRPT2
M83513/19-F02TP	100RT37S-BRP2
M83513/19-F02TN	100RT37S-BR2
M83513/19-F02TT	100RT37S-BRT2
M83513/19-F02TW	100RT37S-BRPT2
M83513/19-F03AP	100RL37S-BRP3
M83513/19-F03AN	100RL37S-BR3
M83513/19-F03AT	100RL37S-BRT3
M83513/19-F03AW	100RL37S-BRPT3
M83513/19-F03CN	100RC37S-BR3
M83513/19-F03CP	100RC37S-BRP3
M83513/19-F03CT	100RC37S-BRT3
M83513/19-F03CW	100RC37S-BRPT3
M83513/19-F03KN	100RK37S-BR3
M83513/19-F03KP	100RK37S-BRP3
M83513/19-F03KT	100RK37S-BRT3
M83513/19-F03KW	100RK37S-BRPT3
M83513/19-F03NN	100RN37S-BR3
M83513/19-F03NP	100RN37S-BRP3
M83513/19-F03NT	100RN37S-BRT3
M83513/19-F03NW	100RN37S-BRPT3
M83513/19-F03PN	104R37S-BR3
M83513/19-F03PP	104R37S-BRP3
M83513/19-F03PT	104R37S-BRT3
M83513/19-F03PW	104R37S-BRPT3
M83513/19-F03TP	100RT37S-BRP3
M83513/19-F03TN	100RT37S-BR3
M83513/19-F03TT	100RT37S-BRT3
M83513/19-F03TW	100RT37S-BRPT3
M83513/20-G01AP	100RL51S-BRP1
M83513/20-G01AN	100RL51S-BR1
M83513/20-G01AT	100RL51S-BRT1
M83513/20-G01AW	100RL51S-BRPT1
M83513/20-G01CN	100RC51S-BR1
M83513/20-G01CP	100RC51S-BRP1
M83513/20-G01CT	100RC51S-BRT1
M83513/20-G01CW	100RC51S-BRPT1
M83513/20-G01KN	100RK51S-BR1
M83513/20-G01KP	100RK51S-BRP1
M83513/20-G01KT	100RK51S-BRT1
M83513/20-G01KW	100RK51S-BRPT1
M83513/20-G01NN	100RN51S-BR1
M83513/20-G01NP	100RN51S-BRP1

MIL SPEC	ACC PN
M83513/20-G01NT	100RN51S-BRT1
M83513/20-G01NW	100RN51S-BRPT1
M83513/20-G01PN	104R51S-BR1
M83513/20-G01PP	104R51S-BRP1
M83513/20-G01PT	104R51S-BRT1
M83513/20-G01PW	104R51S-BRPT1
M83513/20-G01TP	100RT51S-BRP1
M83513/20-G01TN	100RT51S-BR1
M83513/20-G01TT	100RT51S-BRT1
M83513/20-G01TW	100RT51S-BRPT1
M83513/20-G02AP	100RL51S-BRP2
M83513/20-G02AN	100RL51S-BR2
M83513/20-G02AT	100RL51S-BRT2
M83513/20-G02AW	100RL51S-BRPT2
M83513/20-G02CN	100RC51S-BR2
M83513/20-G02CP	100RC51S-BRP2
M83513/20-G02CT	100RC51S-BRT2
M83513/20-G02CW	100RC51S-BRPT2
M83513/20-G02KN	100RK51S-BR2
M83513/20-G02KP	100RK51S-BRP2
M83513/20-G02KT	100RK51S-BRT2
M83513/20-G02KW	100RK51S-BRPT2
M83513/20-G02NN	100RN51S-BR2
M83513/20-G02NP	100RN51S-BRP2
M83513/20-G02NT	100RN51S-BRT2
M83513/20-G02NW	100RN51S-BRPT2
M83513/20-G02PN	104R51S-BR2
M83513/20-G02PP	104R51S-BRP2
M83513/20-G02PT	104R51S-BRT2
M83513/20-G02PW	104R51S-BRPT2
M83513/20-G02TP	100RT51S-BRP2
M83513/20-G02TN	100RT51S-BR2
M83513/20-G02TT	100RT51S-BRT2
M83513/20-G02TW	100RT51S-BRPT2
M83513/20-G03AP	100RL51S-BRP3
M83513/20-G03AN	100RL51S-BR3
M83513/20-G03AT	100RL51S-BRT3
M83513/20-G03AW	100RL51S-BRPT3
M83513/20-G03CN	100RC51S-BR3
M83513/20-G03CP	100RC51S-BRP3
M83513/20-G03CT	100RC51S-BRT3
M83513/20-G03CW	100RC51S-BRPT3
M83513/20-G03KN	100RK51S-BR3
M83513/20-G03KP	100RK51S-BRP3
M83513/20-G03KT	100RK51S-BRT3
M83513/20-G03KW	100RK51S-BRPT3
M83513/20-G03NN	100RN51S-BR3
M83513/20-G03NP	100RN51S-BRP3
M83513/20-G03NT	100RN51S-BRT3
M83513/20-G03NW	100RN51S-BRPT3
M83513/20-G03PN	104R51S-BR3
M83513/20-G03PP	104R51S-BRP3

MIL SPEC	ACC PN
M83513/20-G03PT	104R51S-BRT3
M83513/20-G03PW	104R51S-BRPT3
M83513/20-G03TP	100RT51S-BRP3
M83513/20-G03TN	100RT51S-BR3
M83513/20-G03TT	100RT51S-BRT3
M83513/20-G03TW	100RT51S-BRPT3
M83513/21-H01AP	100RL100S-BRP1
M83513/21-H01AN	100RL100S-BR1
M83513/21-H01AU	100RL100S-BRU1
M83513/21-H01AY	100RL100S-BRPU1
M83513/21-H01CN	100RC100S-BR1
M83513/21-H01CP	100RC100S-BRP1
M83513/21-H01CU	100RC100S-BRU1
M83513/21-H01CY	100RC100S-BRPU1
M83513/21-H01KN	100RK100S-BR1
M83513/21-H01KP	100RK100S-BRP1
M83513/21-H01KU	100RK100S-BRU1
M83513/21-H01KY	100RK100S-BRPU1
M83513/21-H01NN	100RN100S-BR1
M83513/21-H01NP	100RN100S-BRP1
M83513/21-H01NU	100RN100S-BRU1
M83513/21-H01NY	100RN100S-BRPU1
M83513/21-H01PN	104R100S-BR1
M83513/21-H01PP	104R100S-BRP1
M83513/21-H01PU	104R100S-BRU1
M83513/21-H01PY	104R100S-BRPU1
M83513/21-H01TP	100RT100S-BRP1
M83513/21-H01TN	100RT100S-BR1
M83513/21-H01TU	100RT100S-BRU1
M83513/21-H01TY	100RT100S-BRPU1
M83513/21-H02AP	100RL100S-BRP2
M83513/21-H02AN	100RL100S-BR2
M83513/21-H02AU	100RL100S-BRU2
M83513/21-H02AY	100RL100S-BRPU2
M83513/21-H02CN	100RC100S-BR2
M83513/21-H02CP	100RC100S-BRP2
M83513/21-H02CU	100RC100S-BRU2
M83513/21-H02CY	100RC100S-BRPU2
M83513/21-H02KN	100RK100S-BR2
M83513/21-H02KP	100RK100S-BRP2
M83513/21-H02KU	100RK100S-BRU2
M83513/21-H02KY	100RK100S-BRPU2
M83513/21-H02NN	100RN100S-BR2
M83513/21-H02NP	100RN100S-BRP2
M83513/21-H02NU	100RN100S-BRU2
M83513/21-H02NY	100RN100S-BRPU2
M83513/21-H02PN	104R100S-BR2
M83513/21-H02PP	104R100S-BRP2
M83513/21-H02PU	104R100S-BRU2
M83513/21-H02PY	104R100S-BRPU2
M83513/21-H02TP	100RT100S-BRP2
M83513/21-H02TN	100RT100S-BR2

MIL SPEC	ACC PN
M83513/21-H02TU	100RT100S-BRU2
M83513/21-H02TY	100RT100S-BRPU2
M83513/21-H03AP	100RL100S-BRP3
M83513/21-H03AN	100RL100S-BR3
M83513/21-H03AU	100RL100S-BRU3
M83513/21-H03AY	100RL100S-BRPU3
M83513/21-H03CN	100RC100S-BR3
M83513/21-H03CP	100RC100S-BRP3
M83513/21-H03CU	100RC100S-BRU3
M83513/21-H03CY	100RC100S-BRPU3
M83513/21-H03KN	100RK100S-BR3
M83513/21-H03KP	100RK100S-BRP3
M83513/21-H03KU	100RK100S-BRU3
M83513/21-H03KY	100RK100S-BRPU3
M83513/21-H03NN	100RN100S-BR3
M83513/21-H03NP	100RN100S-BRP3
M83513/21-H03NU	100RN100S-BRU3
M83513/21-H03NY	100RN100S-BRPU3
M83513/21-H03PN	104R100S-BR3
M83513/21-H03PP	104R100S-BRP3
M83513/21-H03PU	104R100S-BRU3
M83513/21-H03PY	104R100S-BRPU3
M83513/21-H03TP	100RT100S-BRP3
M83513/21-H03TN	100RT100S-BR3
M83513/21-H03TU	100RT100S-BRU3
M83513/21-H03TY	100RT100S-BRPU3
M83513/22-A01AP	100RL09P-BSP1
M83513/22-A01AN	100RL09P-BS1
M83513/22-A01AT	100RL09P-BST1
M83513/22-A01AW	100RL09P-BSPT1
M83513/22-A01CN	100RC09P-BS1
M83513/22-A01CP	100RC09P-BSP1
M83513/22-A01CT	100RC09P-BST1
M83513/22-A01CW	100RC09P-BSPT1
M83513/22-A01KN	100RK09P-BS1
M83513/22-A01KP	100RK09P-BSP1
M83513/22-A01KT	100RK09P-BST1
M83513/22-A01KW	100RK09P-BSPT1
M83513/22-A01NN	100RN09P-BS1
M83513/22-A01NP	100RN09P-BSP1
M83513/22-A01NT	100RN09P-BST1
M83513/22-A01NW	100RN09P-BSPT1
M83513/22-A01PN	104R09P-BS1
M83513/22-A01PP	104R09P-BSP1
M83513/22-A01PT	104R09P-BST1
M83513/22-A01PW	104R09P-BSPT1
M83513/22-A01TP	100RT09P-BSP1
M83513/22-A01TN	100RT09P-BS1
M83513/22-A01TT	100RT09P-BST1
M83513/22-A01TW	100RT09P-BSPT1
M83513/22-A02AP	100RL09P-BSP2
M83513/22-A02AN	100RL09P-BS2

MIL SPEC	ACC PN
M83513/22-A02AT	100RL09P-BST2
M83513/22-A02AW	100RL09P-BSPT2
M83513/22-A02CN	100RC09P-BS2
M83513/22-A02CP	100RC09P-BSP2
M83513/22-A02CT	100RC09P-BST2
M83513/22-A02CW	100RC09P-BSPT2
M83513/22-A02KN	100RK09P-BS2
M83513/22-A02KP	100RK09P-BSP2
M83513/22-A02KT	100RK09P-BST2
M83513/22-A02KW	100RK09P-BSPT2
M83513/22-A02NN	100RN09P-BS2
M83513/22-A02NP	100RN09P-BSP2
M83513/22-A02NT	100RN09P-BST2
M83513/22-A02NW	100RN09P-BSPT2
M83513/22-A02PN	104R09P-BS2
M83513/22-A02PP	104R09P-BSP2
M83513/22-A02PT	104R09P-BST2
M83513/22-A02PW	104R09P-BSPT2
M83513/22-A02TP	100RT09P-BSP2
M83513/22-A02TN	100RT09P-BS2
M83513/22-A02TT	100RT09P-BST2
M83513/22-A02TW	100RT09P-BSPT2
M83513/22-A03AP	100RL09P-BSP3
M83513/22-A03AN	100RL09P-BS3
M83513/22-A03AT	100RL09P-BST3
M83513/22-A03AW	100RL09P-BSPT3
M83513/22-A03CN	100RC09P-BS3
M83513/22-A03CP	100RC09P-BSP3
M83513/22-A03CT	100RC09P-BST3
M83513/22-A03CW	100RC09P-BSPT3
M83513/22-A03KN	100RK09P-BS3
M83513/22-A03KP	100RK09P-BSP3
M83513/22-A03KT	100RK09P-BST3
M83513/22-A03KW	100RK09P-BSPT3
M83513/22-A03NN	100RN09P-BS3
M83513/22-A03NP	100RN09P-BSP3
M83513/22-A03NT	100RN09P-BST3
M83513/22-A03NW	100RN09P-BSPT3
M83513/22-A03PN	104R09P-BS3
M83513/22-A03PP	104R09P-BSP3
M83513/22-A03PT	104R09P-BST3
M83513/22-A03PW	104R09P-BSPT3
M83513/22-A03TP	100RT09P-BSP3
M83513/22-A03TN	100RT09P-BS3
M83513/22-A03TT	100RT09P-BST3
M83513/22-A03TW	100RT09P-BSPT3
M83513/22-B01AP	100RL15P-BSP1
M83513/22-B01AN	100RL15P-BS1
M83513/22-B01AT	100RL15P-BST1
M83513/22-B01AW	100RL15P-BSPT1
M83513/22-B01CN	100RC15P-BS1
M83513/22-B01CP	100RC15P-BSP1

MIL SPEC	ACC PN
M83513/22-B01CT	100RC15P-BST1
M83513/22-B01CW	100RC15P-BSPT1
M83513/22-B01KN	100RK15P-BS1
M83513/22-B01KP	100RK15P-BSP1
M83513/22-B01KT	100RK15P-BST1
M83513/22-B01KW	100RK15P-BSPT1
M83513/22-B01NN	100RN15P-BS1
M83513/22-B01NP	100RN15P-BSP1
M83513/22-B01NT	100RN15P-BST1
M83513/22-B01NW	100RN15P-BSPT1
M83513/22-B01PN	104R15P-BS1
M83513/22-B01PP	104R15P-BSP1
M83513/22-B01PT	104R15P-BST1
M83513/22-B01PW	104R15P-BSPT1
M83513/22-B01TP	100RT15P-BSP1
M83513/22-B01TN	100RT15P-BS1
M83513/22-B01TT	100RT15P-BST1
M83513/22-B01TW	100RT15P-BSPT1
M83513/22-B02AP	100RL15P-BSP2
M83513/22-B02AN	100RL15P-BS2
M83513/22-B02AT	100RL15P-BST2
M83513/22-B02AW	100RL15P-BSPT2
M83513/22-B02CN	100RC15P-BS2
M83513/22-B02CP	100RC15P-BSP2
M83513/22-B02CT	100RC15P-BST2
M83513/22-B02CW	100RC15P-BSPT2
M83513/22-B02KN	100RK15P-BS2
M83513/22-B02KP	100RK15P-BSP2
M83513/22-B02KT	100RK15P-BST2
M83513/22-B02KW	100RK15P-BSPT2
M83513/22-B02NN	100RN15P-BS2
M83513/22-B02NP	100RN15P-BSP2
M83513/22-B02NT	100RN15P-BST2
M83513/22-B02NW	100RN15P-BSPT2
M83513/22-B02PN	104R15P-BS2
M83513/22-B02PP	104R15P-BSP2
M83513/22-B02PT	104R15P-BST2
M83513/22-B02PW	104R15P-BSPT2
M83513/22-B02TP	100RT15P-BSP2
M83513/22-B02TN	100RT15P-BS2
M83513/22-B02TT	100RT15P-BST2
M83513/22-B02TW	100RT15P-BSPT2
M83513/22-B03AP	100RL15P-BSP3
M83513/22-B03AN	100RL15P-BS3
M83513/22-B03AT	100RL15P-BST3
M83513/22-B03AW	100RL15P-BSPT3
M83513/22-B03CN	100RC15P-BS3
M83513/22-B03CP	100RC15P-BSP3
M83513/22-B03CT	100RC15P-BST3
M83513/22-B03CW	100RC15P-BSPT3
M83513/22-B03KN	100RK15P-BS3
M83513/22-B03KP	100RK15P-BSP3

PART NUMBER CROSS REFERENCE

MIL SPEC	ACC PN
M83513/31-D03KT	100RK25S-C6T3
M83513/31-D03KW	100RK25S-C6PT3
M83513/31-D03NN	100RN25S-C63
M83513/31-D03NP	100RN25S-C6P3
M83513/31-D03NT	100RN25S-C6T3
M83513/31-D03NW	100RN25S-C6PT3
M83513/31-D03PN	104R25S-C63
M83513/31-D03PP	104R25S-C6P3
M83513/31-D03PT	104R25S-C6T3
M83513/31-D03PW	104R25S-C6PT3
M83513/31-D03TP	100RT25S-C6P3
M83513/31-D03TN	100RT25S-C63
M83513/31-D03TT	100RT25S-C6T3
M83513/31-D03TW	100RT25S-C6PT3
M83513/31-E01AP	100RL31S-C6P1
M83513/31-E01AN	100RL31S-C61
M83513/31-E01AT	100RL31S-C6T1
M83513/31-E01AW	100RL31S-C6PT1
M83513/31-E01CN	100RC31S-C61
M83513/31-E01CP	100RC31S-C6P1
M83513/31-E01CT	100RC31S-C6T1
M83513/31-E01CW	100RC31S-C6PT1
M83513/31-E01KN	100RK31S-C61
M83513/31-E01KP	100RK31S-C6P1
M83513/31-E01KT	100RK31S-C6T1
M83513/31-E01KW	100RK31S-C6PT1
M83513/31-E01NN	100RN31S-C61
M83513/31-E01NP	100RN31S-C6P1
M83513/31-E01NT	100RN31S-C6T1
M83513/31-E01NW	100RN31S-C6PT1
M83513/31-E01PN	104R31S-C61
M83513/31-E01PP	104R31S-C6P1
M83513/31-E01PT	104R31S-C6T1
M83513/31-E01PW	104R31S-C6PT1
M83513/31-E01TP	100RT31S-C6P1
M83513/31-E01TN	100RT31S-C61
M83513/31-E01TT	100RT31S-C6T1
M83513/31-E01TW	100RT31S-C6PT1
M83513/31-E02AP	100RL31S-C6P2
M83513/31-E02AN	100RL31S-C62
M83513/31-E02AT	100RL31S-C6T2
M83513/31-E02AW	100RL31S-C6PT2
M83513/31-E02CN	100RC31S-C62
M83513/31-E02CP	100RC31S-C6P2
M83513/31-E02CT	100RC31S-C6T2
M83513/31-E02CW	100RC31S-C6PT2
M83513/31-E02KN	100RK31S-C62
M83513/31-E02KP	100RK31S-C6P2
M83513/31-E02KT	100RK31S-C6T2
M83513/31-E02KW	100RK31S-C6PT2
M83513/31-E02NN	100RN31S-C62
M83513/31-E02NP	100RN31S-C6P2

MIL SPEC	ACC PN
M83513/31-E02NT	100RN31S-C6T2
M83513/31-E02NW	100RN31S-C6PT2
M83513/31-E02PN	104R31S-C62
M83513/31-E02PP	104R31S-C6P2
M83513/31-E02PT	104R31S-C6T2
M83513/31-E02PW	104R31S-C6PT2
M83513/31-E02TP	100RT31S-C6P2
M83513/31-E02TN	100RT31S-C62
M83513/31-E02TT	100RT31S-C6T2
M83513/31-E02TW	100RT31S-C6PT2
M83513/31-E03AP	100RL31S-C6P3
M83513/31-E03AN	100RL31S-C63
M83513/31-E03AT	100RL31S-C6T3
M83513/31-E03AW	100RL31S-C6PT3
M83513/31-E03CN	100RC31S-C63
M83513/31-E03CP	100RC31S-C6P3
M83513/31-E03CT	100RC31S-C6T3
M83513/31-E03CW	100RC31S-C6PT3
M83513/31-E03KN	100RK31S-C63
M83513/31-E03KP	100RK31S-C6P3
M83513/31-E03KT	100RK31S-C6T3
M83513/31-E03KW	100RK31S-C6PT3
M83513/31-E03NN	100RN31S-C63
M83513/31-E03NP	100RN31S-C6P3
M83513/31-E03NT	100RN31S-C6T3
M83513/31-E03NW	100RN31S-C6PT3
M83513/31-E03PN	104R31S-C63
M83513/31-E03PP	104R31S-C6P3
M83513/31-E03PT	104R31S-C6T3
M83513/31-E03PW	104R31S-C6PT3
M83513/31-E03TP	100RT31S-C6P3
M83513/31-E03TN	100RT31S-C63
M83513/31-E03TT	100RT31S-C6T3
M83513/31-E03TW	100RT31S-C6PT3
M83513/31-F01AP	100RL37S-C6P1
M83513/31-F01AN	100RL37S-C61
M83513/31-F01AT	100RL37S-C6T1
M83513/31-F01AW	100RL37S-C6PT1
M83513/31-F01CN	100RC37S-C61
M83513/31-F01CP	100RC37S-C6P1
M83513/31-F01CT	100RC37S-C6T1
M83513/31-F01CW	100RC37S-C6PT1
M83513/31-F01KN	100RK37S-C61
M83513/31-F01KP	100RK37S-C6P1
M83513/31-F01KT	100RK37S-C6T1
M83513/31-F01KW	100RK37S-C6PT1
M83513/31-F01NN	100RN37S-C61
M83513/31-F01NP	100RN37S-C6P1
M83513/31-F01NT	100RN37S-C6T1
M83513/31-F01NW	100RN37S-C6PT1
M83513/31-F01PN	104R37S-C61
M83513/31-F01PP	104R37S-C6P1

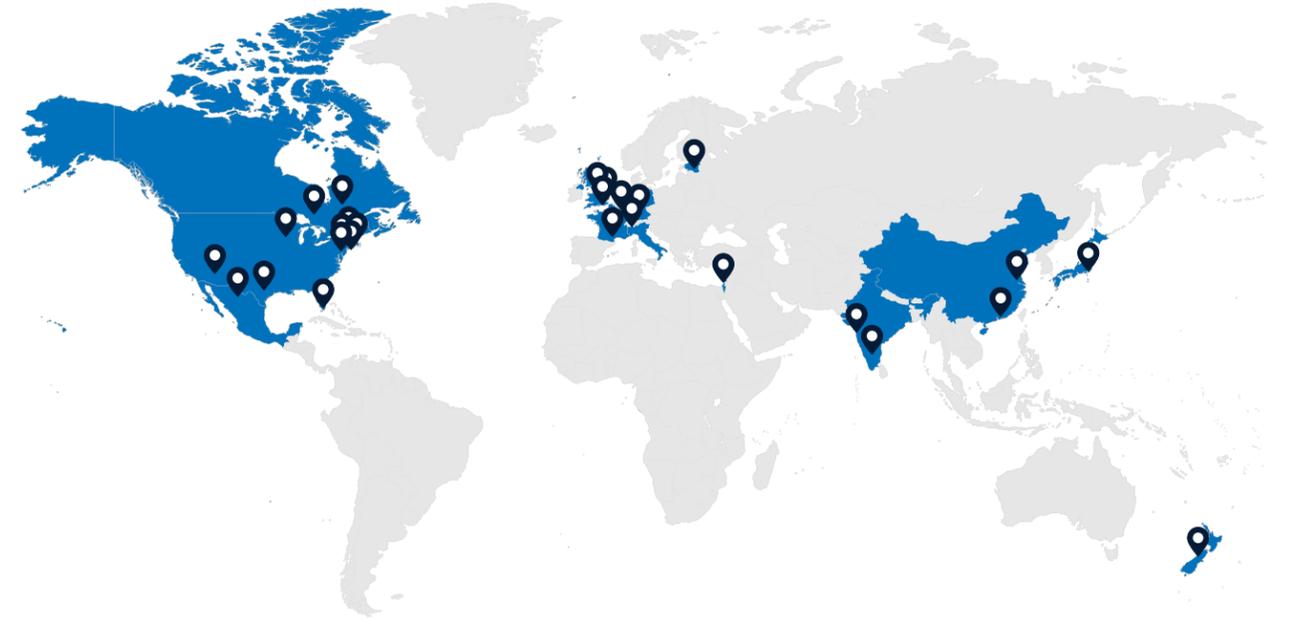
MIL SPEC	ACC PN
M83513/31-F01PT	104R37S-C6T1
M83513/31-F01PW	104R37S-C6PT1
M83513/31-F01TP	100RT37S-C6P1
M83513/31-F01TN	100RT37S-C61
M83513/31-F01TT	100RT37S-C6T1
M83513/31-F01TW	100RT37S-C6PT1
M83513/31-F02AP	100RL37S-C6P2
M83513/31-F02AN	100RL37S-C62
M83513/31-F02AT	100RL37S-C6T2
M83513/31-F02AW	100RL37S-C6PT2
M83513/31-F02CN	100RC37S-C62
M83513/31-F02CP	100RC37S-C6P2
M83513/31-F02CT	100RC37S-C6T2
M83513/31-F02CW	100RC37S-C6PT2
M83513/31-F02KN	100RK37S-C62
M83513/31-F02KP	100RK37S-C6P2
M83513/31-F02KT	100RK37S-C6T2
M83513/31-F02KW	100RK37S-C6PT2
M83513/31-F02NN	100RN37S-C62
M83513/31-F02NP	100RN37S-C6P2
M83513/31-F02NT	100RN37S-C6T2
M83513/31-F02NW	100RN37S-C6PT2
M83513/31-F02PN	104R37S-C62
M83513/31-F02PP	104R37S-C6P2
M83513/31-F02PT	104R37S-C6T2
M83513/31-F02PW	104R37S-C6PT2
M83513/31-F02TP	100RT37S-C6P2
M83513/31-F02TN	100RT37S-C62
M83513/31-F02TT	100RT37S-C6T2
M83513/31-F02TW	100RT37S-C6PT2
M83513/31-F03AP	100RL37S-C6P3
M83513/31-F03AN	100RL37S-C63
M83513/31-F03AT	100RL37S-C6T3
M83513/31-F03AW	100RL37S-C6PT3
M83513/31-F03CN	100RC37S-C63
M83513/31-F03CP	100RC37S-C6P3
M83513/31-F03CT	100RC37S-C6T3
M83513/31-F03CW	100RC37S-C6PT3
M83513/31-F03KN	100RK37S-C63
M83513/31-F03KP	100RK37S-C6P3
M83513/31-F03KT	100RK37S-C6T3
M83513/31-F03KW	100RK37S-C6PT3
M83513/31-F03NN	100RN37S-C63
M83513/31-F03NP	100RN37S-C6P3
M83513/31-F03NT	100RN37S-C6T3
M83513/31-F03NW	100RN37S-C6PT3
M83513/31-F03PN	104R37S-C63
M83513/31-F03PP	104R37S-C6P3
M83513/31-F03PT	104R37S-C6T3
M83513/31-F03PW	104R37S-C6PT3
M83513/31-F03TP	100RT37S-C6P3
M83513/31-F03TN	100RT37S-C63

MIL SPEC	ACC PN
M83513/31-F03TT	100RT37S-C6T3
M83513/31-F03TW	100RT37S-C6PT3
M83513/32-G01AP	100RL51S-C6P1
M83513/32-G01AN	100RL51S-C61
M83513/32-G01AT	100RL51S-C6T1
M83513/32-G01AW	100RL51S-C6PT1
M83513/32-G01CN	100RC51S-C61
M83513/32-G01CP	100RC51S-C6P1
M83513/32-G01CT	100RC51S-C6T1
M83513/32-G01CW	100RC51S-C6PT1
M83513/32-G01KN	100RK51S-C61
M83513/32-G01KP	100RK51S-C6P1
M83513/32-G01KT	100RK51S-C6T1
M83513/32-G01KW	100RK51S-C6PT1
M83513/32-G01NN	100RN51S-C61
M83513/32-G01NP	100RN51S-C6P1
M83513/32-G01NT	100RN51S-C6T1
M83513/32-G01NW	100RN51S-C6PT1
M83513/32-G01PN	104R51S-C61
M83513/32-G01PP	104R51S-C6P1
M83513/32-G01PT	104R51S-C6T1
M83513/32-G01PW	104R51S-C6PT1
M83513/32-G01TP	100RT51S-C6P1
M83513/32-G01TN	100RT51S-C61
M83513/32-G01TT	100RT51S-C6T1
M83513/32-G01TW	100RT51S-C6PT1
M83513/32-G02AP	100RL51S-C6P2
M83513/32-G02AN	100RL51S-C62
M83513/32-G02AT	100RL51S-C6T2
M83513/32-G02AW	100RL51S-C6PT2
M83513/32-G02CN	100RC51S-C62
M83513/32-G02CP	100RC51S-C6P2
M83513/32-G02CT	100RC51S-C6T2
M83513/32-G02CW	100RC51S-C6PT2
M83513/32-G02KN	100RK51S-C62
M83513/32-G02KP	100RK51S-C6P2
M83513/32-G02KT	100RK51S-C6T2
M83513/32-G02KW	100RK51S-C6PT2
M83513/32-G02NN	100RN51S-C62
M83513/32-G02NP	100RN51S-C6P2
M83513/32-G02NT	100RN51S-C6T2
M83513/32-G02NW	100RN51S-C6PT2
M83513/32-G02PN	104R51S-C62
M83513/32-G02PP	104R51S-C6P2
M83513/32-G02PT	104R51S-C6T2
M83513/32-G02PW	104R51S-C6PT2
M83513/32-G02TP	100RT51S-C6P2
M83513/32-G02TN	100RT51S-C62
M83513/32-G02TT	100RT51S-C6T2
M83513/32-G02TW	100RT51S-C6PT2
M83513/32-G03AP	100RL51S-C6P3
M83513/32-G03AN	100RL51S-C63

MIL SPEC	ACC PN
M83513/32-G03AT	100RL51S-C6T3
M83513/32-G03AW	100RL51S-C6PT3
M83513/32-G03CN	100RC51S-C63
M83513/32-G03CP	100RC51S-C6P3
M83513/32-G03CT	100RC51S-C6T3
M83513/32-G03CW	100RC51S-C6PT3
M83513/32-G03KN	100RK51S-C63
M83513/32-G03KP	100RK51S-C6P3
M83513/32-G03KT	100RK51S-C6T3
M83513/32-G03KW	100RK51S-C6PT3
M83513/32-G03NN	100RN51S-C63
M83513/32-G03NP	100RN51S-C6P3
M83513/32-G03NT	100RN51S-C6T3
M83513/32-G03NW	100RN51S-C6PT3
M83513/32-G03PN	104R51S-C63
M83513/32-G03PP	104R51S-C6P3
M83513/32-G03PT	104R51S-C6T3
M83513/32-G03PW	104R51S-C6PT3
M83513/32-G03TP	100RT51S-C6P3
M83513/32-G03TN	100RT51S-C63
M83513/32-G03TT	100RT51S-C6T3
M83513/32-G03TW	100RT51S-C6PT3
M83513/33-H01AP	100RL100S-C6P1
M83513/33-H01AN	100RL100S-C61
M83513/33-H01AU	100RL100S-C6U1
M83513/33-H01AY	100RL100S-C6PU1
M83513/33-H01CN	100RC100S-C61
M83513/33-H01CP	100RC100S-C6P1
M83513/33-H01CU	100RC100S-C6U1
M83513/33-H01CY	100RC100S-C6PU1
M83513/33-H01KN	100RK100S-C61
M83513/33-H01KP	100RK100S-C6P1
M83513/33-H01KU	100RK100S-C6U1
M83513/33-H01KY	100RK100S-C6PU1
M83513/33-H01NN	100RN100S-C61
M83513/33-H01NP	100RN100S-C6P1
M83513/33-H01NU	100RN100S-C6U1
M83513/33-H01NY	100RN100S-C6PU1
M83513/33-H01PP	104R100S-C6P1
M83513/33-H01PU	104R100S-C6U1
M83513/33-H01PY	104R100S-C6PU1
M83513/33-H01TN	100RT100S-C61
M83513/33-H01TU	100RT100S-C6U1
M83513/33-H01TY	100RT100S-C6PU1
M83513/33-H02AP	100RL100S-C6P2
M83513/33-H02AN	100RL100S-C62
M83513/33-H02AU	100RL100S-C6U2
M83513/33-H02AY	100RL100S-C6PU2
M83513/33-H02CN	100RC100S-C62
M83513/33-H02CP	100RC100S-C6P2

MIL SPEC	ACC PN
M83513/33-H02CU	100RC100S-C6U2
M83513/33-H02CY	100RC100S-C6PU2
M83513/33-H02KN	100RK100S-C62
M83513/33-H02KP	100RK100S-C6P2
M83513/33-H02KU	100RK100S-C6U2
M83513/33-H02KY	100RK100S-C6PU2
M83513/33-H02NN	100RN100S-C62
M83513/33-H02NP	100RN100S-C6P2
M83513/33-H02NU	100RN100S-C6U2
M83513/33-H02NY	100RN100S-C6PU2
M83513/33-H02PN	104R100S-C62
M83513/33-H02PP	104R100S-C6P2
M83513/33-H02PU	104R100S-C6U2
M83513/33-H02PY	104R100S-C6PU2
M83513/33-H02TP	100RT100S-C6P2
M83513/33-H02TN	100RT100S-C62
M83513/33-H02TU	100RT100S-C6U2
M83513/33-H02TY	100RT100S-C6PU2
M83513/33-H03AP	100RL100S-C6P3
M83513/33-H03AN	100RL100S-C63
M83513/33-H03AU	100RL100S-C6U3
M83513/33-H03AY	100RL100S-C6PU3
M83513/33-H03CN	100RC100S-C63
M83513/33-H03CP	100RC100S-C6P3
M83513/33-H03CU	100RC100S-C6U3
M83513/33-H03CY	100RC100S-C6PU3
M83513/33-H03KN	100RK100S-C63
M83513/33-H03KP	100RK100S-C6P3
M83513/33-H03KU	100RK100S-C6U3
M83513/33-H03KY	100RK100S-C6PU3
M83513/33-H03NN	100RN100S-C63
M83513/33-H03NP	100RN100S-C6P3
M83513/33-H03NU	100RN100S-C6U3
M83513/33-H03NY	100RN100S-C6PU3
M83513/33-H03PN	104R100S-C63
M83513/33-H03PP	104R100S-C6P3
M83513/33-H03PU	104R100S-C6U3
M83513/33-H03PY	104R100S-C6PU3
M83513/33-H03TP	100RT100S-C6P3
M83513/33-H03TN	100RT100S-C63
M83513/33-H03TU	100RT100S-C6U3
M83513/33-H03TY	100RT100S-C6PU3

Amphenol



Amphenol Canada

5950 14th Avenue
Markham, ON
Canada, L3S 3K5
416-291-4401

Amphenol Aerospace Operations

40-60 Delaware Avenue
Sidney, NY 13838
800-678-0141

Amphenol Commercial Air Division

40-60 Delaware Avenue
Sidney, NY 13838
1-800-687-0141

Amphenol Nexus Technologies

50 Sunnyside Avenue
Stamford, CT 06902
203-327-7300

Amphenol PCD

72 Cherry Hill Drive
Beverly, MA 01915
978-624-3400

Amphenol SV Microwave

2400 Centrepark West Drive
West Palm Beach, FL
561-840-1800

Amphenol Times Microwave, Inc.

358 Hall Avenue
Wallingford, CT 06492
800-867-2629

Amphenol Fiber Systems International

1300 Central Expressway North, Suite 100
Allen, TX 75013
214-547-2400

Amphenol Borisch Technologies

4511 East Paris AVE
Grand Rapids, MI 49512
616-554-9820

Amphenol Printed Circuits

91 Northeastern Boulevard
Nashua, NH 03062
603-324-4500

Amphenol Invotec

Unit 1-3, Hedging Lane Industrial Estate
Dosthill, Tamworth, B77 5HH United Kingdom
+44 (0) 1827 263250

Amphenol Ionix Systems

Prospect House, Taylor Business Park
Risley, Warrington, WA3 6HP United Kingdom
+44 (0) 1942 685200

Amphenol Limited

Thanet Way
Whitstable, Kent, CT5 3JF United Kingdom
+44 (0) 1227 773200

Amphenol Socapex

948 Promenade De L'Arve – BP 29
74311 Thyez France
+33 (0) 4 50 89 28 00

Amphenol Air LB SAS

2 Rue Clément Ader, Zac de Wé
08110 Carignan France
+33 (0) 03 24 22 78 49

Amphenol AirLB GmbH

Am Kleinbahnhof 4
D-66740 Saarlouis Germany
+49 (0) 68 31/98 10 0

Amphenol SEFEE

Z.I. des Cazes – BP243
12402 Saint-Affrique Cedex France
+33 (0) 5 65 98 11 00

Amphenol Interconnect India

105, Bhosari Industrial Area
Pune – 411 026 India
+91 20 27120363

Amphenol Japan, Ltd.

471-1, Deba, Ritto-City
Shiga, 520 3041 Japan
+81 77 553 8501

Amphenol Martec Limited

St. Augustines Business Park
Swalecliffe, Whitstable, Kent
CT5 2QJ United Kingdom
+44 (0) 1227 793 733

Amphenol Optimize

Carretera Internacional Km 6.5
Col. Parque Industrial
Nogales, Sonora, México. C.P. 84094
+52 (631) 311-160

Amphenol Ionix Systems OÜ

Pikk Street 59b
Kuressaare 93815, Estonia
+372 4521 780

AMAO – European Sales Operations

Via Barbaiana 5
20020 Lainate Milano, Italy
+39 02 932 541

Amphenol Bar-Tec Ltd.

3 Hagavish st
POB 2479 Kfar-Saba 44641, Israel
+972-9-7644100

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

Amphenol CANADA

MILITARY & AEROSPACE



SMC
Catalog



Product Overview
Brochure



Multi-Modular ARINC
Catalog

Visit amphenolcanada.com
for literature, product data sheets, videos and Patents



R58 Catalog



ARINC 600 Catalog



ARINC 404 Catalog

AMPHENOL CANADA CORPORATION

5950 14th Avenue, Markham, ON L3S4M4

T (416) 291-4401

© 2024. Amphenol Canada Corporation. All Rights Reserved.

Rev.1 — 02/2026