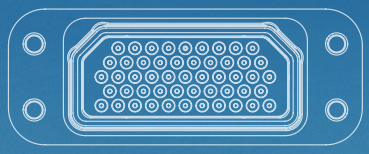
R58

FILTERED AND RECTANGULAR CONNECTORS









R58

Amphenol Canada is the only qualified supplier for the Mil Spec JN1122



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.

Using Amphenol's on-line computer system, we are able to promptly update you on your order status, provide you with price and delivery quotations, and address any problems or questions you might have.

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

QUALITY & RELIABILITY

Certified to ISO 9001:2000 + AS9100 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 are reliability.

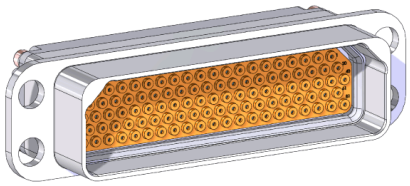
Please contact us for RoHS requirements.

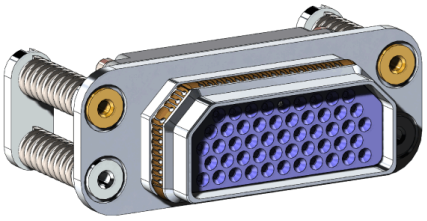
R58

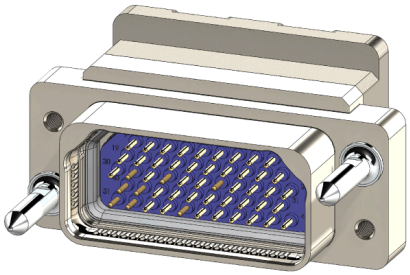


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R58 Size A & B Plugs 8
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Filter Connector

The Amphenol R58 series are high-performance environment-resistant, rectangular connectors designed to be compatible with all MIL-DTL-83733 connectors and Amphenol Canada is interchangeable with all M83733 connectors and the only qualified supplier for the Mil Spec JN1122.

FEATURES & BENEFITS

- Harsh environmental applications
- Shield and corrosion resistance
- Rear release crimp snap-in contacts
- Field proven assembly allow contacts to be inserted and extracted from the rear
- Contacts are qualified to Military Specifications

The connectors are available in two shell sizes with a variety of hard and spring mounting configurations.

A broad range of contact arrangements is available from custom to 185 standard contacts. The standard contacts are available in sizes 12, 16, 20 and 22D in crimp and PCB. Fiber optic contacts are also available. Shells are machined aluminum alloy with several finish options, including Olive Drab Chromate over Cadmium, and Electroless Nickel.

Insulators are a high grade, thermoplastic. Silicone rubber is used for grommets, inter-facial seals and peripheral seals.

Filtered versions are also available (458 Series).

SPECIFICATIONS

DIELECTRIC WITHSTAND VOLTAGE:

- 1300 VAC for size 22 contacts
- 1500 VAC for power contacts
- 500 VAC for shield contacts

INSULATION RESISTANCE:

- 5000 MΩ @ 500 VDC
- Temperature range of -55°C to +125°C

CONTACTS:

- Contacts are M39029/57 & M39029/58 for size 22D, and M39029/4 & M39029/5 for sizes 20,16 & 12.
- Size 12 coax is M39029/50 & M39029/51. Fiber-Optic contacts available

CONTACT TERMINATIONS:

- Crimp, PCB

MATERIALS:	
Shell	Aluminum Alloy
Insert	Thermoplastic
Hardware	CRES=Corrosion Resistant Stainless Steel
Contact Retention	BeCu=Beryllium Copper

Commercial Equivalent to the M83733 Military Spec

PART NUMBER KEY

1. Military	2. Connector Series	3. Base / Number	4. Class	5. Shell Size	6. Insert Pattern A or B
M	83733	/7	R	B	051

STEPS	PART #	DESCRIPTION
1. MILITARY	M	Military- Amphenol Canada offers a commercial equivalent to the M83733 Military specification
2. CONNECTOR SERIES	83733	

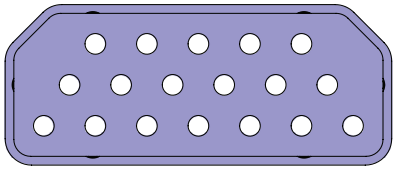
3. BASE SLASH NUMBER	/ NO.	CONTACT GENDER	MOUNTING STYLE	
	/1	Receptacle (Pin)	G	(4x) .281 (7.14) Thru Holes
	/2	Plug (Socket)	X	(2x) Guide Pins, (2x) Spring Mounts
	/3	Receptacle (Pin)	X	(2x) Guide Sockets, (2x) 6-32 mounting holes
	/4	Plug (Socket)	K	(4x) .138-32 UNC-2B Mounting w/ Captive Spring Mount Assembly
	/5	Receptacle (Pin)	C	(4x) .138-32 UNC-2B Self-Locking Bushings
	/6	Receptacle (Pin)	F	(4x) .138-32 UNC-2B Clinch Nuts
	/7	Plug (Socket)	Y	(2x) .138-32 UNC-2B Mounting, w/ Spring Mount Assembly, (2x) Guide Sockets
	/8	Receptacle (Pin)	Y	(2x) Guide Pins, (2x) 6-32 mounting holes
	/9	Receptacle (Pin)	M	(2x) .281 (7.14) Thru Holes
	/10	Receptacle (Pin)	H	(2x) .138-32 UNC-2B Self-Locking Bushings
	/11	Receptacle (Pin)	Z	(2x) .138-32 UNC-2B Clinch Nuts
	/12	Plug (Socket)	H	(2x) .138-32 UNC-2B Mounting, w/ Spring Mount Assembly

4. CLASS	R	Environmentally Resistant
	S	Space Environment Applications
5. SHELL SIZE	A	Small Shell
	B	Large Shell
6. INSERT PATTERN A	018	18x sz 12 Contacts
	032	32x sz 16 Contacts
	051	51x sz 20 Contacts
	131	131x sz 22D Contacts
6. INSERT PATTERN B	030	30x sz 12 Contacts
	048	30x sz 16 Contacts - 18x sz 12 Contacts
	59W7	52x sz 16 Contacts - (W7) 7x COAX Contacts
	064	64x sz 16 Contacts
	071	56x sz 20 Contacts - 15 x sz 12 Contacts
	71C15	56x sz 20 Contacts - (C15)15x sz 12 Contacts
	078	38x sz 20 Contacts - 40x 16 Contacts
	101	101x sz 20 Contacts
	185	185x sz 22D Contacts

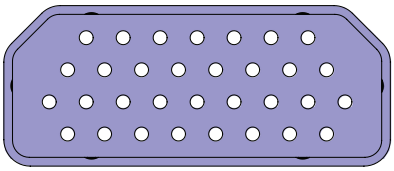
PART NUMBER KEY

1. RoHS Compliance	2. Connector Series	3. Shell Size	4. Insert Patterns A or B	5. Contact Gender	6. Termination Style	7. Mounting Style	8. Shell Finish
E	R58	A	018	P	B	C	N

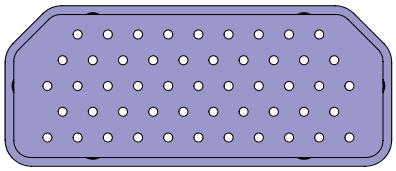
STEPS	PART #	DESCRIPTION
1. ROHS COMPLIANCE	E	RoHS Compliant (Omit for non-RoHS compliant connectors)
2. CONNECTOR SERIES	R58	Rectangular M83733 Style
3. SHELL SIZE	A	Small Shell
	B	Large Shell
4. INSERT PATTERN A	018	18x sz 12 Contacts
	032	32x sz 16 Contacts
	051	51x sz 20 Contacts
	084	86x sz 22 Contacts - 2x COAX Contacts
	105F4	101x sz 22 Contacts - 4x sz 16 Fiber Contacts
	131	131x sz 22D Contacts
5. INSERT PATTERN B	030	30x sz 12 Contacts
	048	30x sz 16 Contacts - 18x sz 12 Contacts
	59W7	52x sz 16 Contacts - (W7) 7x COAX Contacts
	064	64x sz 16 Contacts
	071	56x sz 20 Contacts - 15 x sz 12 Contacts
	71C15	56x sz 20 Contacts - (C15)15x sz 12 Contacts
	078	38x sz 20 Contacts - 40x 16 Contacts
	101	101x sz 20 Contacts
	185	185x sz 22D Contacts
6. CONTACT GENDER	P	Pin (Receptacle)
	S	Socket (Plug)
	H	Pin (Receptacle) with EMI spring
	G	Socket (Plug) with EMI spring
7. TERMINATION STYLES	B	PC Tail
	S	Solder Cup
	T	Crimp
8. MOUNTING STYLE	C	S/B 4x.138-32 UNC-2B self locking bushings for receptacle
	F	(4x) .138-32 UNC-2B Clinch Nuts
	G	(4x) .281 (7.14) Thru Holes (Mounting hardware is separate)
	H	PIN (Recpt) 2x.138-32 UNC-2B Self Locking Bushings, Staggered Mount SKT (Plug) 2x.138-32 UNC-2B Spring Mounts, Staggered Mount
	K	4x.138UNC-2B Mounting w/Captive Spring Mount Assemblies
	M	(2x) .281 (7.14) Thru Holes (Mounting hardware is separate)
	X	PIN (Rcpt) 2x Guide Sockets, 2x.138-32 Mounting Holes
		SKT (Plug) 2x Guide Pins, 2x.138-32 Spring Mounts
	Y	PIN (2x) Panel Mount Hardware, (2x) Guide Pins
		SKT (2x) .138-32 UNC-2B Mounting, w/ Spring Mount Assembly, (2x) Guide Sockets
	Z	PIN (Rcpt) 2x Guide Pins, 2x.138-32 Mounting Holes
		SKT (Plug) 2x Guide Sockets, 2x.138-32 Spring Mounts
9. SHELL FINISH	C	OD Cadmium=Olive Drab Cadmium
	N	Electroless Nickel
	Z	Zinc Nickel



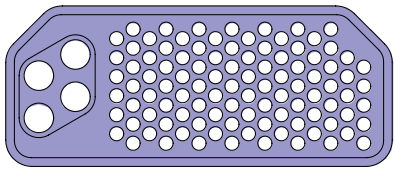
018	
QTY	Size
18	12



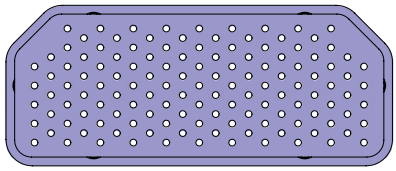
032	
QTY	Size
32	16



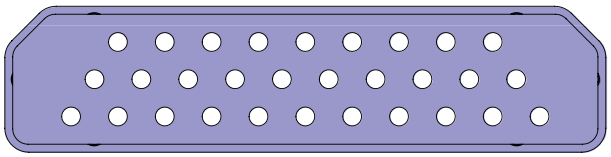
051	
QTY	Size
51	20



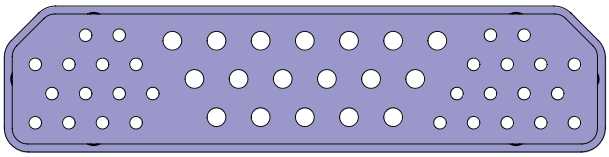
105F4	
QTY	Size
101	22
4	16 Fiber



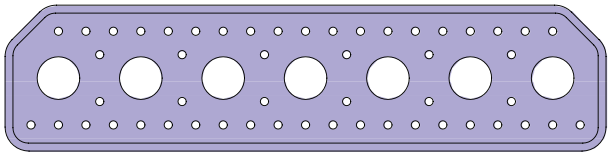
131	
QTY	Size
131	22 D



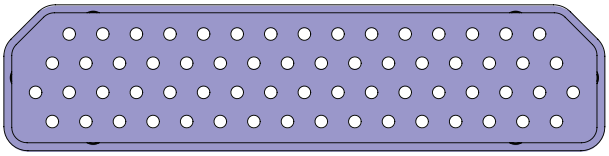
030	
QTY	Size
30	12



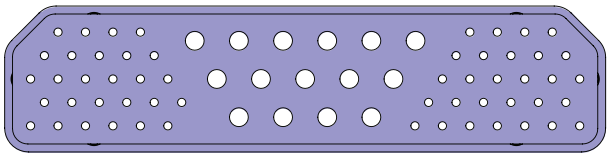
048	
QTY	Size
30	16
18	12



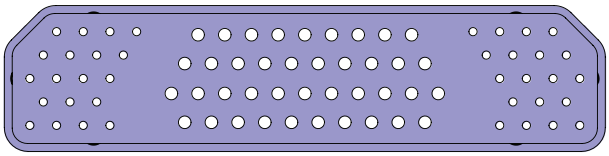
58W7	
QTY	Size
52	16
(W7) 7	Coax



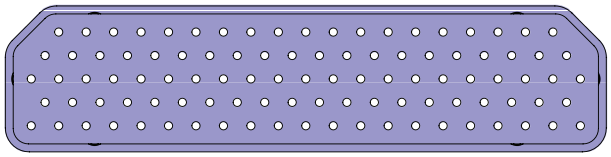
064	
QTY	Size
64	16



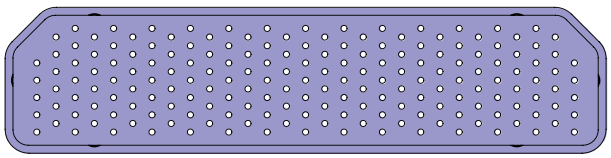
071 and 71C15	
QTY	Size
56	20
15	12 (12 COAX for 71C15)



078	
QTY	Size
38	20
40	16

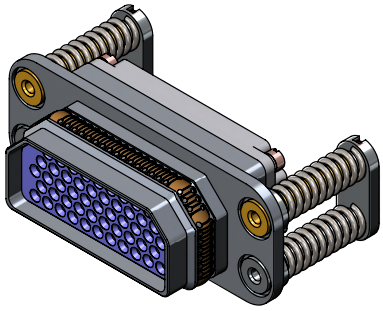


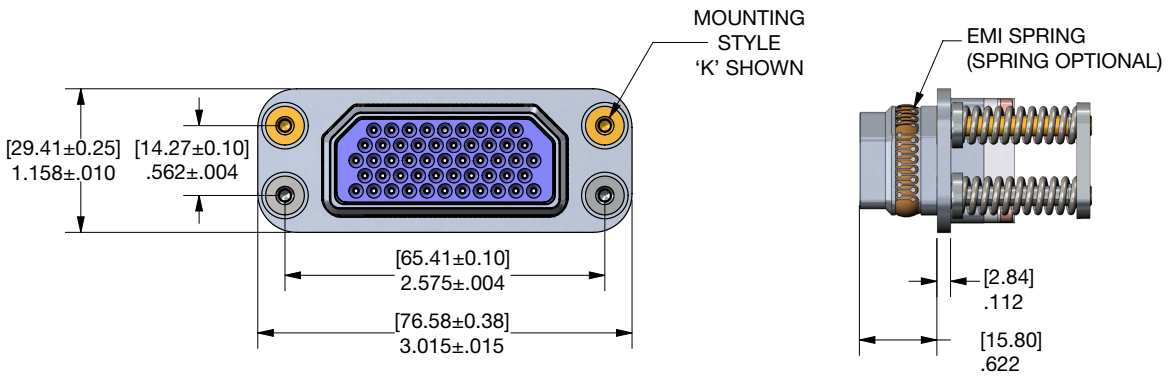
101	
QTY	Size
101	20



185	
QTY	Size
185	22D

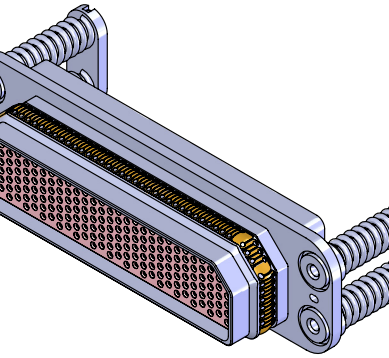
SIZE A PLUG

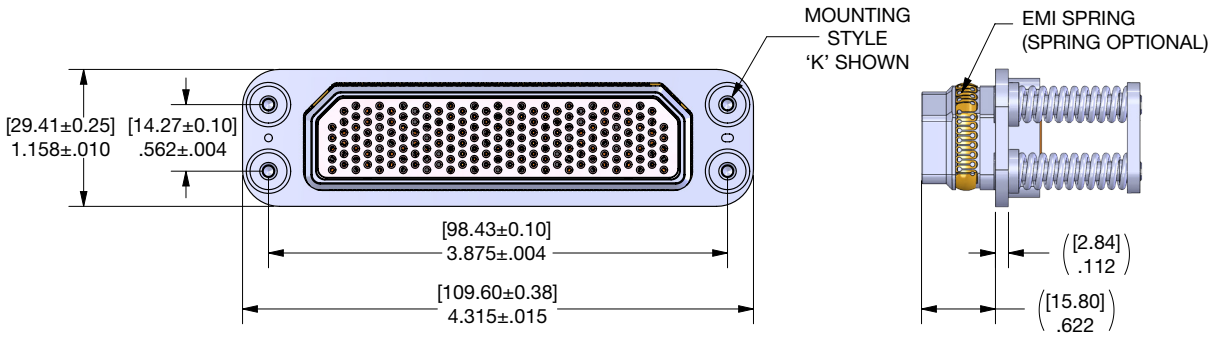




FRONT VIEW

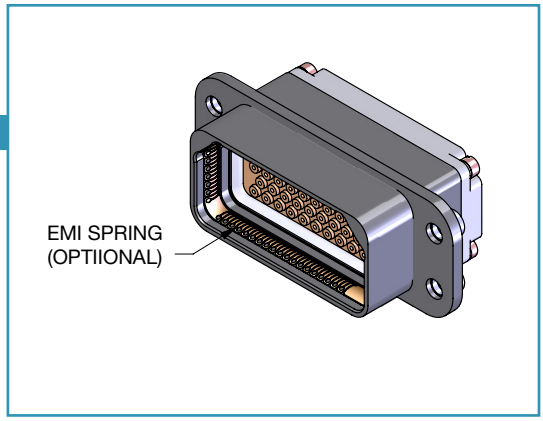
SIZE B PLUG

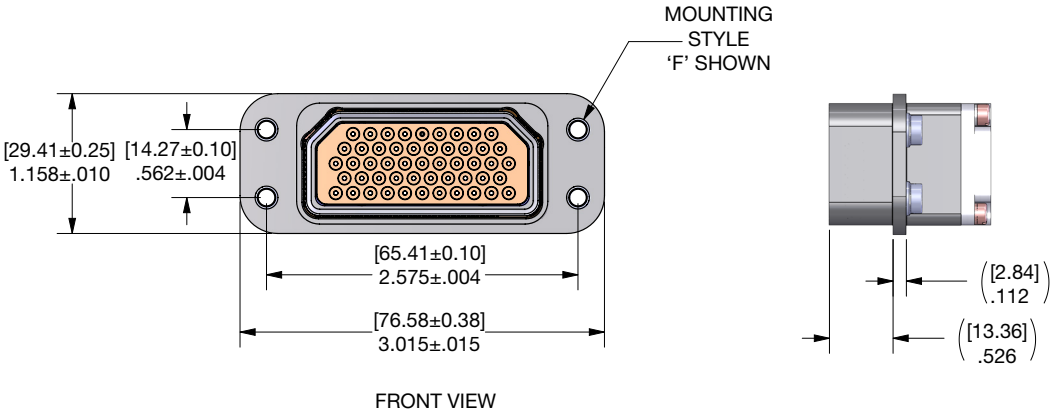




FRONT VIEW

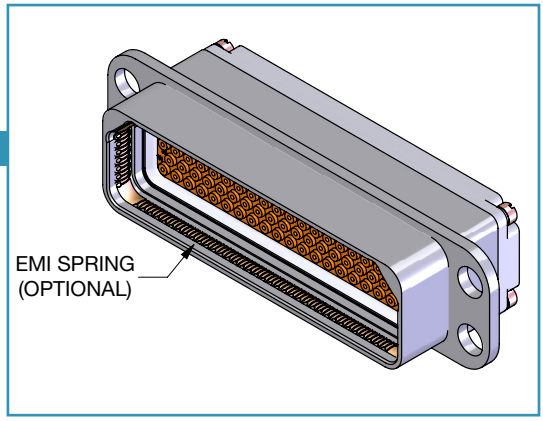
SIZE A RECEPTACLE

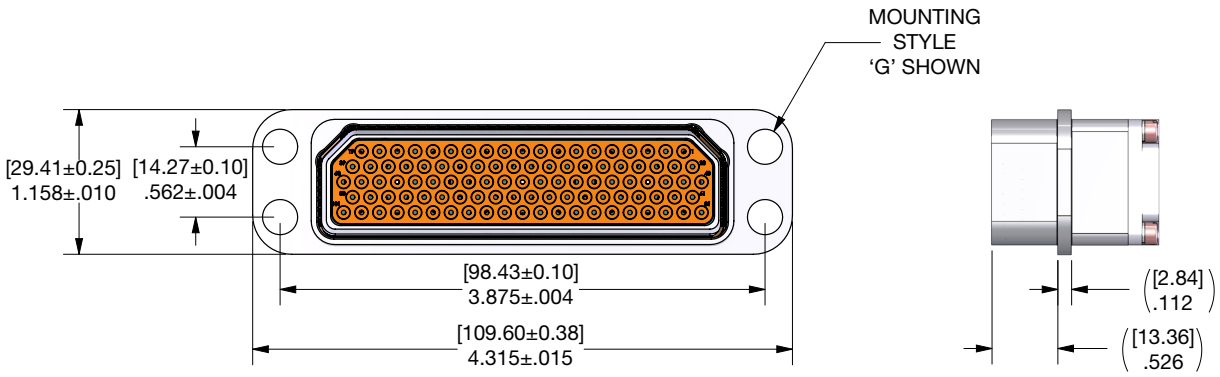




FRONT VIEW

SIZE B RECEPTACLE

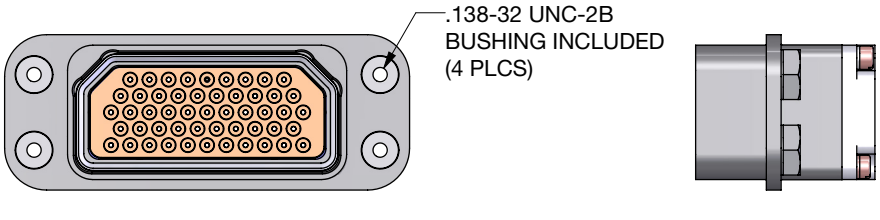




TYPE C PIN MILITARY, SOCKET COMMERCIAL TYPE

M83733/5
TYPE 'C' PIN
MILITARY

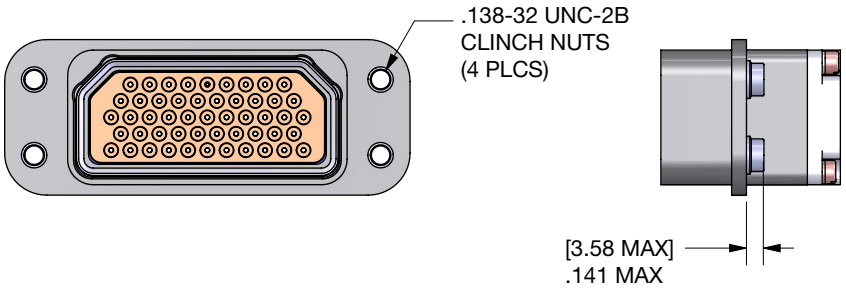
TYPE "C" SKT
WITH BUSHINGS
COMMERCIAL
VERSION



TYPE F PIN MILITARY, SOCKET COMMERCIAL TYPE

M83733/6
TYPE 'F' PIN
MILITARY

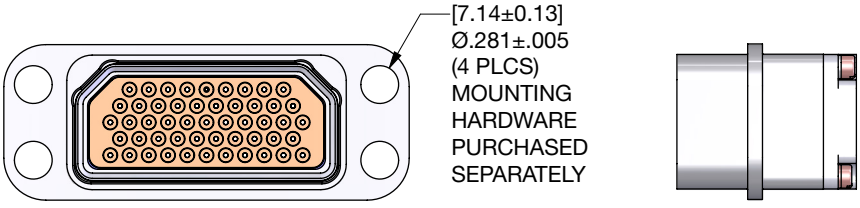
TYPE 'F' SKT WITH
CLINCH NUTS
COMMERCIAL



TYPE G PIN MILITARY, SOCKET COMMERCIAL TYPE

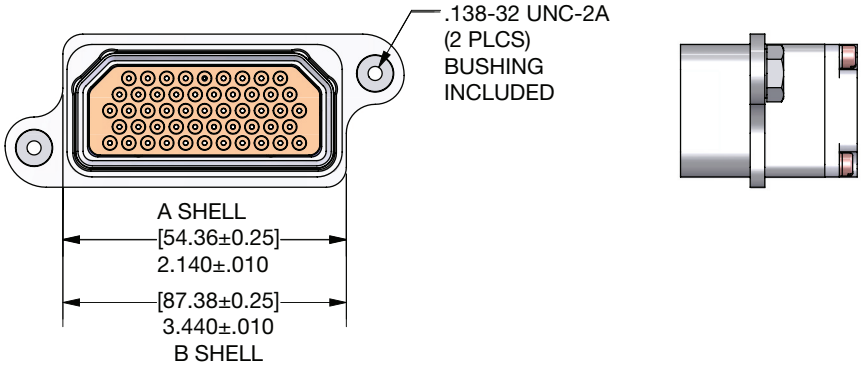
M83733/1
TYPE 'G' PIN
MILITARY

TYPE 'G' SKT
COMMERCIAL



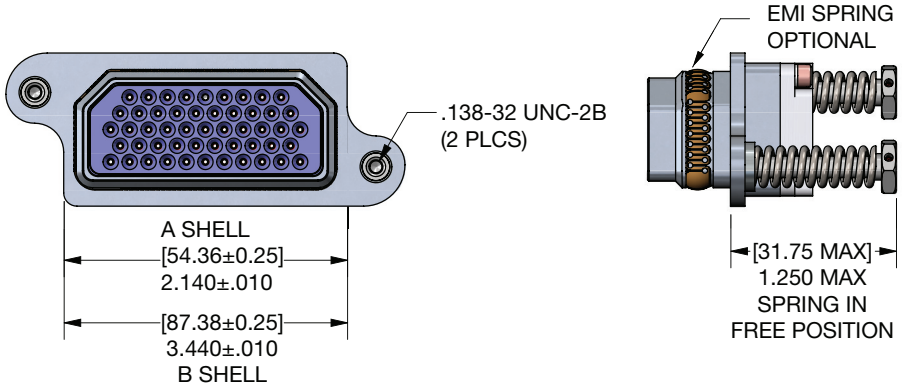
TYPE H PIN

M83733/10
TYPE 'H' PIN



TYPE H SOCKET

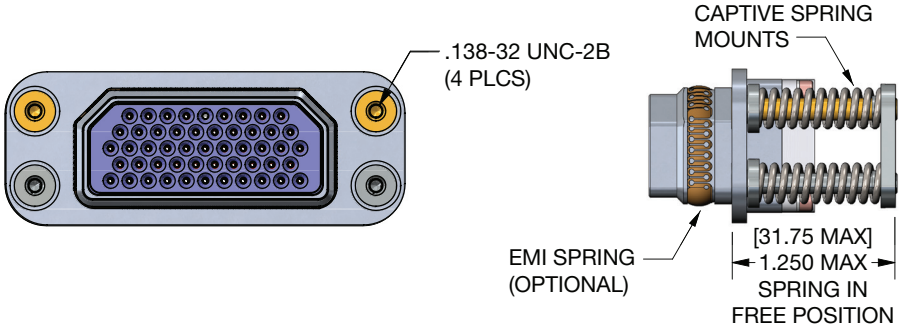
M83733/12
TYPE 'H' SOCKET



TYPE K SOCKET MILITARY, PIN COMMERCIAL TYPE

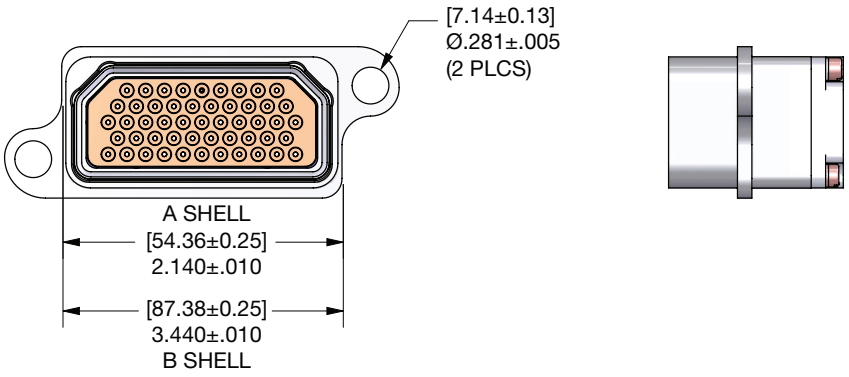
M83733/4
TYPE 'K' SOCKET
MILITARY

TYPE 'K' PIN
COMMERCIAL



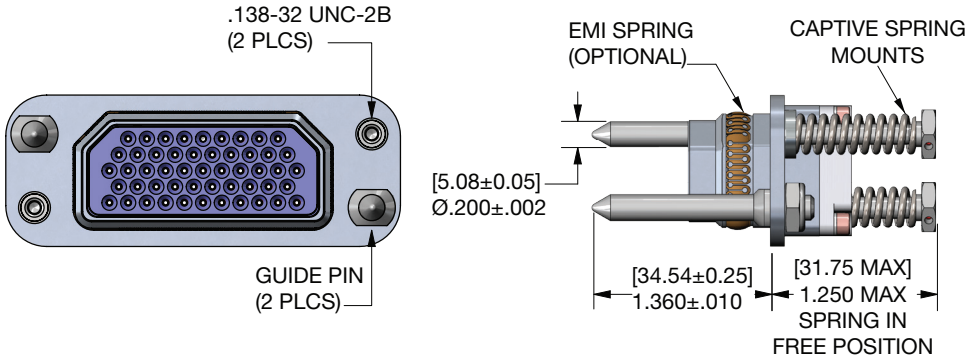
TYPE M PIN

M83733/9
TYPE 'M' PIN



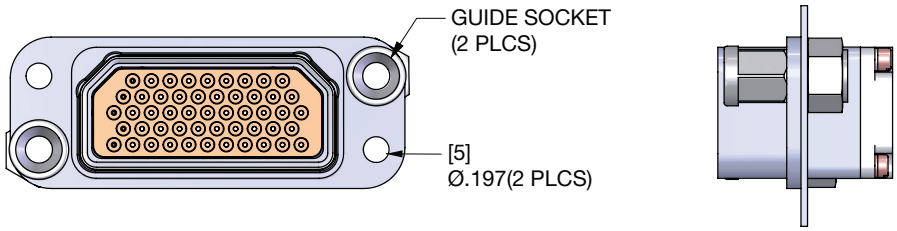
TYPE X SOCKET

M83733/2
TYPE 'X' SOCKET



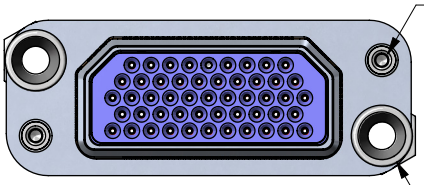
TYPE X PIN

M83733/3
TYPE 'X' PIN



TYPE Y SOCKET

M83733/7
TYPE 'Y' SOCKET

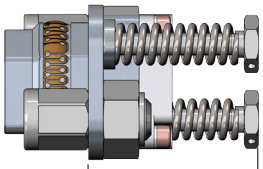


.138-32 UNC-2B
(2 PLCS)

GUIDE SOCKET
(2 PLCS)

EMI SPRING
OPTIONAL

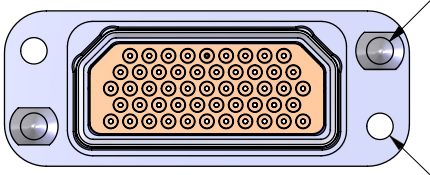
CAPTIVE SPRING
MOUNTS



[31.75 MAX]
1.250 MAX
SPRING IN
FREE POSITION

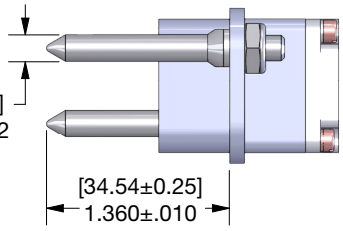
TYPE Y PIN

M83733/8
TYPE 'Y' PIN



GUIDE PIN
(2 PLCS)

[5]
Ø.197 (2 PLCS)

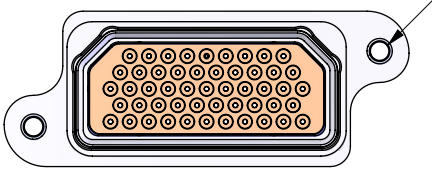


[5.08±0.05]
Ø.200±.002

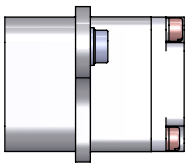
[34.54±0.25]
1.360±.010

TYPE Z PIN

M83733/11
TYPE 'Z' PIN



.138-32 UNC-2B
CLINCH NUTS
(2 PLCS)



1. RoHS Compliance	2. Connector Series	3. Shell Size	4. Backshell	5. Backshell Style	6. Plating	7. Customer Number
E	R58	B	A	1	N	XXX

1. ROHS COMPLIANCE

E	RoHS Compliant (Omit for non-RoHS compliant)

2. CONNECTOR SERIES

R58	Rectangular

3. SHELL SIZE

A	Small Shell
B	Large Shell

4. BACKSHELL

S	Straight
R	Right Angle
C	Custom

5. BACKSHELL STYLE

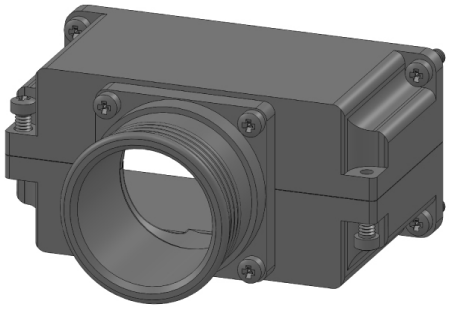
1	Split, Saddle Clamp
2	Split, EMI
3	One Piece, Sealed, EMI
4	One Piece, Saddle Clamp

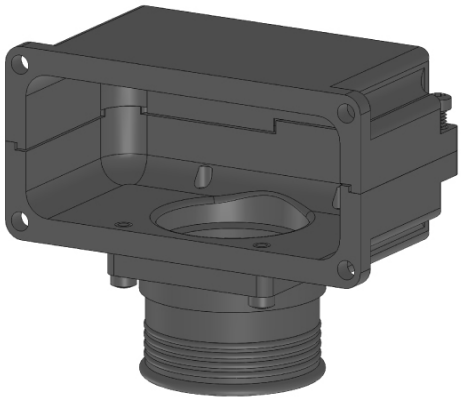
6. PLATING

N	Electroless Nickel
O	OD Chromate
Z	Zinc Nickel
C	Yellow CAD

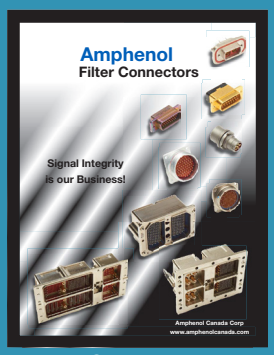
7. CUSTOMER NUMBER

XXX	Customer Number





Amphenol CANADA
MILITARY & AEROSPACE



Filter Connectors Catalog



Rectangular Catalog



Microminiature Catalog

Visit http://www.amphenolcanada.com/media
for literature, product data sheets, videos and Patents



R27 Catalog



ARINC 600 Catalog



ARINC 404 Catalog

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