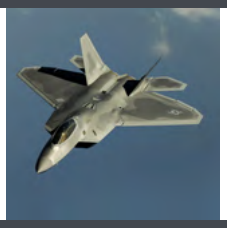
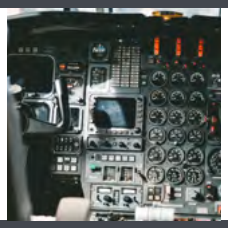
SMC

AVIONICS RECTANGULAR CONNECTORS







Stackable
Modular
Connector



SMC

Amphenol CANADA
MILITARY & AEROSPACE

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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 AND RELIABILITY

Certified to ISO 9001:2015+ 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.

SMC SERIES | STACKABLE MODULAR CONNECTORS



Created as an alternative to current industry offerings, this connector series targets high-performance, high altitude, and high-reliability mission-critical applications for both military and commercial airborne use.

APPLICATIONS



FEATURES

- Low-profile, stackable composite shell
- Modular, environmentally sealed insert assemblies
- Supports quarter-turn mating hardware & backshells
- Ideal application: Military avionics (engine & flight controls, HUDs, FADECs)

SPECIFICATIONS

Shell	Metal	Nickel Plated
	Plastic	Thermoplastic composite
Hardware		Stainless steel (300 series), passivated
Inserts		High grade Thermoplastic per MIL-M-24519 with Fluorosilicone rubber

INSERTS

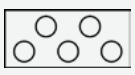
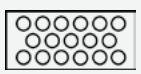
SMC - 10 P

Number of Contacts
00 | 02 | 03 | 04 | 05 | 10 | 17

Connector Type
P - Plug Kit
R - Receptacle Kit





JSFC Designation	Amphenol Part Number	Insert		Contacts				
				Sizes				
				12	16	20	22D	22
				Wire/Cable AWG				
		Layout	Qty.	12-14	16-20	20-26	22-28	22-26
JSFC109-1-0D	SMC-00		00					
JSFC109-1-2X	SMC-02X		02	2				
JSFC109-1-3X	SMC-03X		03		3			
JSFC109-1-4X	SMC-04X		04		2		2	
JSFC109-1-5X	SMC-05X		05			5		
JSFC109-1-10X	SMC-10X		10				10	
JSFC109-1-17X	SMC-17X		17					17



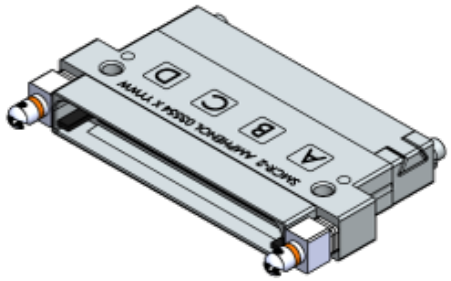
SHELL KITS

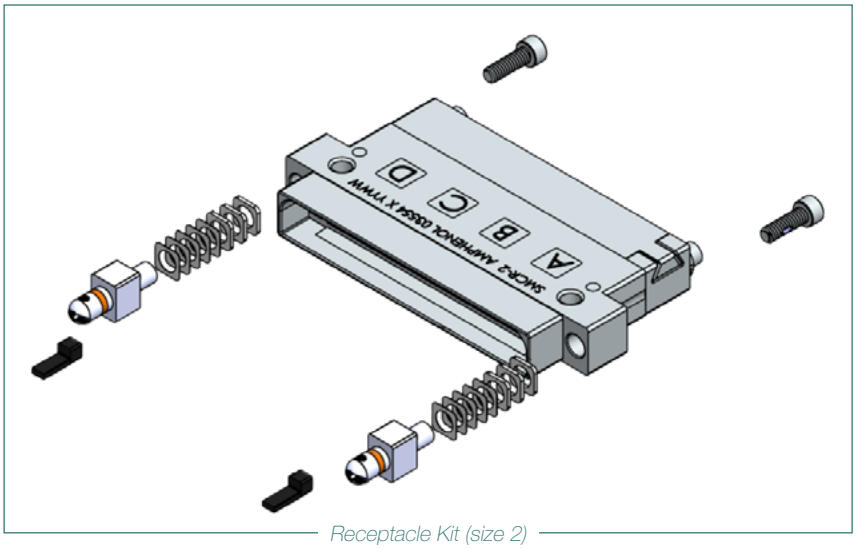
SMC R - 1

Connector Size
1 = Size 1 (2 Cavities)
2 = Size 2 (4 Cavities)

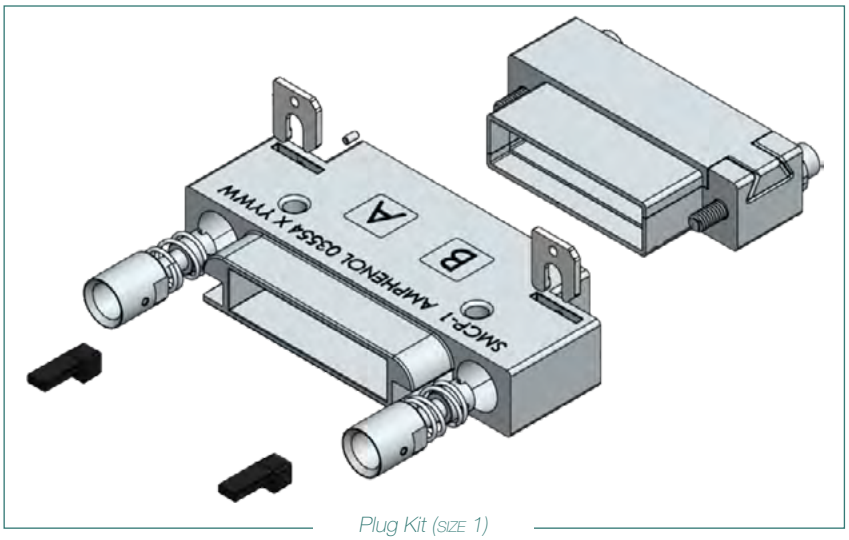
Connector Type
P = Plug Kit
R = Receptacle Kit

JSFC Designation	Amphenol Part Number
JSFC160-1	SMCR-1
JSFC160-2	SMCR-2
JSFC161-1	SMCP-1
JSFC161-2	SMCP-2





Receptacle Kit (size 2)



Plug Kit (size 1)

SMC SERIES | STACKABLE MODULAR CONNECTORS



CONTACTS

E SMC - 1 0 12 P C 00 - N

RoHS Compliance
E - RoHS Compliant
Omit for non-RoHS compliant

Series
SMC - Stackable Modular Connector series

Part Type
1 - Contact

Contact Type
0 - Standard
C - Coax
U - Non-standard size

Contact Size
12 | 16 | 20 | 22 | U22

Gender
P - Pin
S - Socket

Termination
C - Crimp

Deviation
00 - Standard
01 - Alternative AWG

Optional Alternative Underplate
N - 50µ Gold over Nickel
Omit for Palladium-Nickel (Pd-Ni)

Size	Gender/ Type	Wire/Cable AWG	Specification (per *JSFC109*)	*JSFC* Designation	Amphenol Part Number	
					1500 cycles Ni-Pd Underplate	500 cycles 50µ" Gold
12	Pin	12-14	M39029/107-623	1-2P	ESMC-1012PC00	ESMC-1012PC00-N
	Pin	16-20	JSFC100-2	1-2P		ESMC-1012PC01-N
	Pin Coax	M17-RGXXX	M39029/28-211	1-2P		ESMC-1C12PC00-N
	Socket	12-14	JSFC117-12	1-2S		ESMC-1012SC00-N
	Socket Coax	M17-RGXXX	M39029/27-210	1-2S		ESMC-1C12SC00-N
16	Pin	16-20	M39029/107-622	1-3P 1-4P	ESMC-1016PC00	ESMC-1016PC00-N
	Pin	20-24	JSFC100-3	1-3P 1-4P		ESMC-1016PC01-N
	Pin	22-26	JSFC100-4	1-3P 1-4P		ESMC-1016PC02-N
	Pin Coax	M17-RGXXX	M39029/76-424	1-3P 1-4P		ESMC-1C16PC00-N
	Socket	16-20	JSFC117-16	1-3S 1-4S	ESMC-1016SC00	ESMC-1016SC00-N
	Socket Coax	M17-RGXXX	M39029/78-432	1-3S 1-4S		ESMC-1C16SC00-N
20	Pin	20-24	M39029/107-621	1-5P	ESMC-1020PC00	ESMC-1020PC00-N
	Pin	22-26	JSFC100-1	1-5P		ESMC-1020PC01-N
	Socket	20-24	JSFC117-20	1-5S	ESMC-1020SC00	ESMC-1020SC00-N
	Socket	22-28	JSFC117-2022	1-5S	ESMC-1020SC01	ESMC-1020SC01-N
22	Pin	22-28	M39029/107-620	1-10P 1-4P	ESMC-1022PC00	ESMC-1022PC00-N
	Socket	22-28	JSFC117-22	1-10S 1-4S	ESMC-1022SC00	ESMC-1022SC00-N
U22	Pin	22-26	JSFC169-1	1-17P	ESMC-1U22PC00	ESMC-1U22PC00-N
	Socket	22-26	JSFC170-1	1-17S	ESMC-1U22SC00	ESMC-1U22SC00-N



CONTACTS CRIMP / TOOLING

Size	Gender/ Type	Crimp Barrel Size	Crimping (M22520 Slash Nº)		Insertion/Removal Tools (M81969 Slash Nº)	
			Crimp Tool	Positioner	Installing Tool	Removal Tool
12	Pin	12	/1-01	/1-04 YELLOW	/14-04 /8-09	/14-04 /8-10
		16	/1-01 /7-01		/14-04 /8-09 /8-309	/14-04 /8-10 /8-310
	Pin Coax	N/A	Inner Contact: /2-01 Outter Contact: /31-01	Inner Contact: /2-34 Outter Contact: /31-02	/14-04 /8-09	/14-04 /8-10
	Socket	12	/1-01	/1-04 YELLOW /1-16	/14-04 /8-09 /8-309	/14-04 /8-10 /8-310
	Socket Coax	N/A	Inner Contact: /2-01 Outter Contact: /31-01	Inner Contact: /2-34 Outter Contact: /31-02	/14-04 /8-09	/14-04 /8-10
16	Pin	16	/1-01 /7-01	/1-04 BLUE /7-04	/14-03 /8-07	/14-03 /8-08
		20	/1-01 /2-01 /7-01		/14-03 /8-07 /8-307	/14-03 /8-08 /8-308
		22				
	Pin Coax	N/A	Inner Contact: /2-01 Outter Contact: /4-01	Inner Contact: /2-35 Outter Contact: /4-02	/14-03 /8-07	/14-03 /8-08
	Socket	16	/1-01 /7-01	/1-04 BLUE /7-04	/14-03 /8-07 /8-307	/14-03 /8-08 /8-308
	Socket Coax	N/A	Inner Contact: /2-01 Outter Contact: /4-01	Inner Contact: /2-35 Outter Contact: /4-02	/14-03 /8-07	/14-03 /8-08
20	Pin	20	/1-01 /2-01 /7-01	/1-04 RED /2-10 /7-08	/14-10 /8-05	/14-10 /8-06
		22			/14-10 /8-05 /8-305	/14-10 /8-06 /8-306
	Socket	20	/1-01 /2-01 /7-01	/1-04 RED /2-10 /7-08	/14-10 /8-05 /8-305	/14-10 /8-06 /8-308
		22D	/2-01 /7-01		/14-01 /8-01 /8-301	/14-01 /8-02 /8-302
22	Pin	22D	/2-01 /7-01	/2-09 /7-07	/14-01 /8-01	/14-01 /8-02
	Socket			/2-06 /7-06	/14-01 /8-01 /8-301	/14-01 /8-02 /8-302
U22	Pin	U22	MH800	K127	M15570-22-1	M15570-22-1
	Socket					



Pin



Socket

FOR MORE INFORMATION

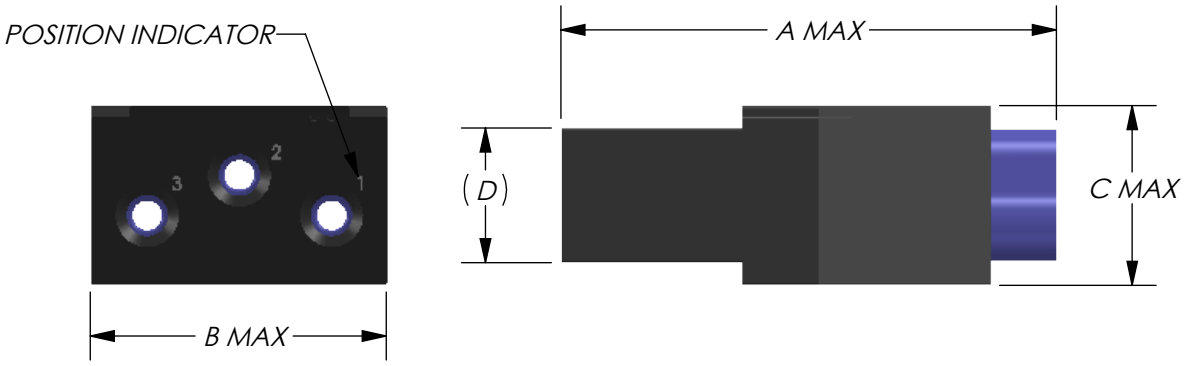
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sales@amphenolcanada.com
+1 (416) 291-4401

SUPPORT BY REGION CONSULT:
amphenolcanada.com/SalesLocations

DIMENSIONS

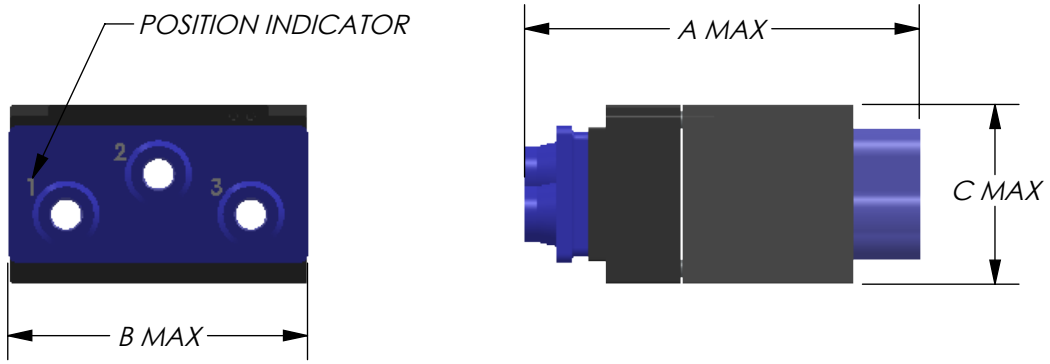
INSERTS

RECEPATCLE / SOCKET



FRONT VIEW ***SIDE VIEW***

PLUG / PIN



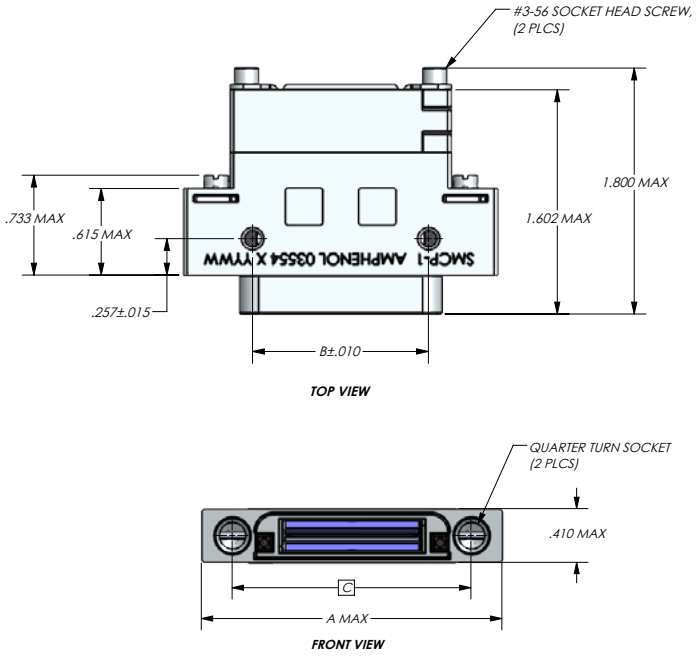
FRONT VIEW ***SIDE VIEW***

Dimensions are in inch (mm)

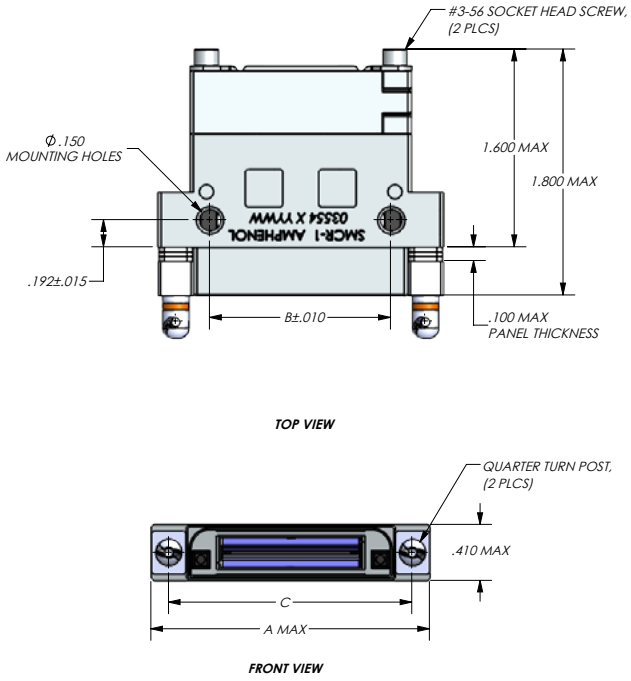
Nº of Inserts	A MAX		B MAX	C MAX	D
	PLUG	RECEPTACLE			
02	.720 (18.29)	.895 (22.73)	.517 (13.13)	.308 (7.82)	.234 (5.94)
03					
04					
05					
10					
17					

SHELLS

PLUG



RECEPTACLE



Dimensions are in inch (mm)

Size	A MAX		B ±.010 (0.13)		C
	PLUG	RECEPTACLE	PLUG	RECEPTACLE	
1	2.220 (56.388)	2.020 (51.308)	1.235 (31.369)	1.270 (32.258)	1.750 (44.450)
2	3.220 (81.788)	3.020 (76.708)	2.235 (56.769)	2.270 (57.658)	2.750 (69.850)

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Micro-D Connectors Catalog



Product Overview Brochure



Multi-Modular ARINC Catalog

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



R58 Catalog



ARINC 600 Catalog



ARINC 404 Catalog

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