

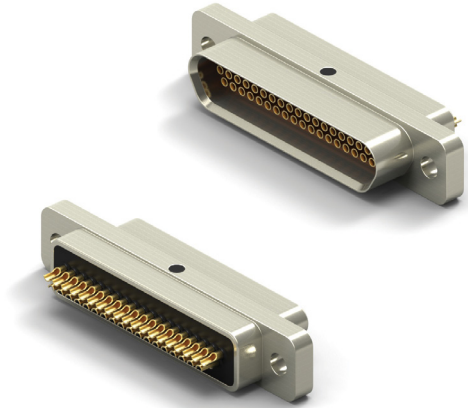
FIELD SOLDERABLE CONNECTOR




















- Standard Profile Metal Shell Connector w/Solder Cup Contacts
- Environmentally Sealed
- Operating Temperature -50° C to 200° C
- 9 to 100 Contacts Accepting 24 AWG Wire

HOW TO ORDER

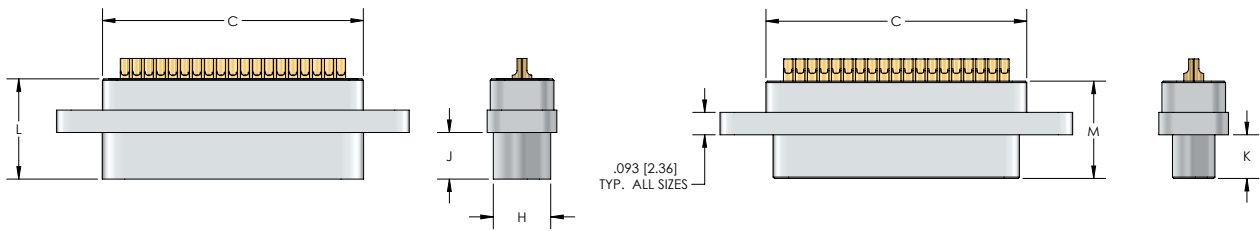
* indicates preferred standard, ** Consult factory for other plating options ,

*** Leave blank if no Mounting Option is required (F01-Float Mount is not available for size 100)



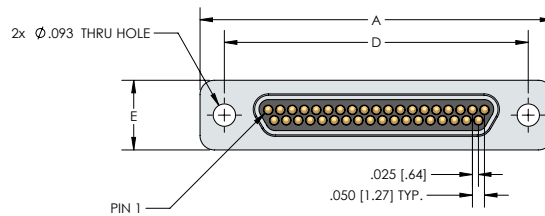
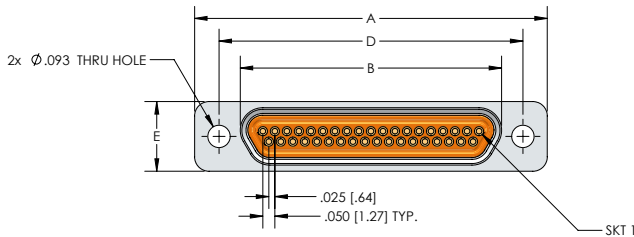
M	R	51-3	N	Ø	- SØ1		
Series	Insulator	Contacts	Contact Gender	Hardware	Finish**	Temp Range	Mounting Option***
M=Metal	R=PPS	Ø9	N= Male / Pin (Plug Side)	Ø No Hardware	Blank= Cadmium	*Blank = 125C	F01-Float Mount
		15				HT = 200C	
		21	T = Female/Socket (Receptacle Side)	*Ø2 (12 for Size 1ØØ) 22 (Swaged) Allen Head Jackscrew	*SØ1 = Nickel		
		25					
		31	TT = Female/Socket (Receptacle Side) for 24 AWG wire	Ø3 (13 for Size 1ØØ) High Profile Allen Head Jackscrew	SØ3 = Black Anodize		
		37					
				*Ø5 (15 for Size 1ØØ) Slotted Head Jackscrew	SØ6 = Olive-Drab Cadmium		
		51-3					
		1ØØ		Ø6 (16 for Size 1ØØ) High Profile Slotted Head Jackscrew	SØ7 = Titanium		
							
				Ø7 (17 for Size 1ØØ) Jack post	SØ9 = Stainless		
							

DIMENSIONS



RECEPTACLE (SOCKETS)

PLUG (PINS)



Size	ALL		M SERIES							
	A Max.	B Max.	C Max.	D Max.	E Max.	H Max.	J Max. (Skt)	K Max. (Pin)	L Max. (Skt)	M Max. (Pin)
9	.785 (19.94)	.402 (10.21)	.393 (9.98)	.565 (14.35)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
15	.935 (23.75)	.552 (14.02)	.543 (13.79)	.715 (18.16)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
21	1.085 (27.56)	.702 (17.83)	.693 (17.60)	.865 (21.47)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
25	1.185 (30.10)	.802 (20.37)	.793 (20.14)	.965 (24.51)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
31	1.335 (33.91)	.952 (24.18)	.943 (23.95)	1.115 (28.32)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
37	1.485 (37.72)	1.102 (27.99)	1.093 (27.76)	1.265 (32.13)	.308 (7.83)	.248 (6.30)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
51	1.435 (36.45)	1.054 (26.77)	1.041 (26.44)	1.215 (30.86)	.351 (8.92)	.297 (7.54)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)
100	2.165 (54.99)	1.505 (38.23)	1.442 (36.63)	1.800 (45.72)	.394 (10.00)	.394 (10.00)	.199 (5.05)	.187 (4.75)	.429 (10.90)	.416 (10.57)

MICRO-D SOLDERABLE SERIES METAL PERFORMANCE DATA, MATERIALS AND FINISHES

PERFORMANCE DATA

18-E

ELECTRICAL

CONTACT RESISTANCE:	8 mΩ max.@ 2.5 A
CURRENT RATING (SIGNAL CONTACTS):	3 A max.
DIELECTRIC WITHSTANDING VOLTAGE:	600 VAC at sea level, 150 VAC at 70,000 ft.
INSULATION RESISTANCE:	5,000 MΩ min.

10-M

MECHANICAL

CONTACT ENGAGING FORCE:	6 oz max. (Contact average is 3 oz.)
CONTACT SEPARATING FORCE:	0.5 oz. min.
CONNECTOR MATING FORCE:	10 oz. x number of contacts max.
CONNECTOR UNMATING FORCE:	10 oz. x number of contacts min.
VIBRATION:	No damage or interruption detected (one microsecond sensitivity) EIA-364-28 Condition IV
SHOCK:	No damage or interruption detected (one microsecond sensitivity) EIA-364-27 Condition E
DURABILITY:	No mechanical or electrical defects after 500 matings.
SALT SPRAY:	No exposure of base metal or loss of performance after 96 hours for both Nickel and Cadmium plating

MATERIALS AND FINISHES

18-M&F

MATERIALS AND FINISHES

Pin Contacts	Beryllium Copper (C17200) per ASTM B194.
Socket Contacts	Leaded commercial bronze (C314000) per ASTM B140.
Contact Plating	Gold plated per ASTM-B488. 50 microinches min. is the standard thickness.
Metal Shells	Aluminum alloy per SAE-AMS-QQ-A-200/8, type 6061-T6. Finish is cadmium per SAE-AMS-QQ-P-416,TYPE II, CLASS 3, with suitable underplate with yellow chromate, this plating is not RoHS compliant. Or Finish Electroless Nickel plate per SAE AMS2404, class 3 or 4, .0005 minimum thickness.
Insulator Material	Polyphenylene sulfide (PPS) per MIL-M-24519 GST 40F or ASTM D5927. Color Black.
Interfacial Seals	Fluorosilicone elastomer per MIL-R-25988. Standard on "M" Series socket face.
Hardware	Corrosion resistant steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS-2700