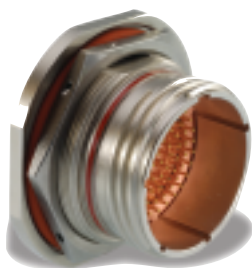


MIL-DTL-38999 Series I, II, III, IV Filter Connectors



These miniature circular filter connectors are designed to combine the functions of a standard electrical connector and a feed-thru filter into one compact package. They are designed and can be provided with planar array capacitor or Chip-on-flex technology to meet the applicable portions of military specification MIL-DTL-38999 series I, II, III and IV. These connectors feature arrangements that will accommodate up to 12B contacts.

How to Order - TKJL/TKJ/TKJA/TKJB

	TKJ	L	O	C	*	A	*	L	P	N	*
FILTER SERIES PREFIX	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
MODIFIER	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
SHELL STYLE	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
TERMINATION	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
SHELL SIZE	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
HARDWARE FINISH	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
CONTACT ARRANGEMENTS	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
CAPACITANCE INDICATOR	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
CONTACT TYPE	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
ALTERNATE SHELL POSITION	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
SPECIAL MODIFIERS	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

FILTER SERIES PREFIX TKJ - ITT Cannon prefix	TERMINATION C - Solder pot termination E - P.C. tails S - Crimp Piggyback W - Wire wraps	CAPACITANCE INDICATOR* L - 32,000-45,000 PF M - 8,000-12,000 PF T - 3,300-5,000 PF H - 850- 1,300 PF
MODIFIER L - Series I scoop-proof shell (omit if Series II desired) A - Series III Triple Start Thread (omit if Series II desired) B - Series IV - Available in receptacle only (omit if Series II desired)	SHELL SIZE Series I, III and IV: 11, 13, 15, 17, 19, 21, 23, and 25 Series II: 10, 12, 14, 16, 18, 20, 22, and 24	CONTACT TYPE P-pin; S-socket
SHELL STYLE 0 - Wall mounting receptacle (front panel mounting) 2 - Box mounting (front panel mounting) 3 - Wall mounting (black panel mounting) 5 - Box mounting receptacle (back panel mounting) 7 - Jam nut receptacle	HARDWARE FINISH A - Bright cadmium over nickel plate B - Olive drab cadmium over nickel plate N - Electroless nickel plate (preferred)	ALTERNATE SHELL POSITION N (normal), A, B, C, D
NOTES: 1) Backshell thread and teeth. Series I and II - Provided only on shell types indicated on dimension sheets. Series III - No threads or teeth provided. Series IV - Provided with threads and teeth. 2) Hermetic versions of the filter connectors can be provided. Contact Customer Service for availability. 3) Series III and IV can only be shell style 0 or 7.	CONTACT ARRANGEMENTS See page 22.	SPECIAL MODIFIERS Consult Customer Service for definition and availability

MIL-DTL-38999 Series I, II, III, IV Filter Connectors

Performance and Material Specifications

MATERIALS AND FINISHES

Shell	Aluminum alloy*
Insulator	High grade plastic/epoxy
Contacts	Copper alloy, gold plate
Grommet and Seal	Silicone base elastomer
Jam Nut	Aluminum alloy*
Grounding Spring	Beryllium copper, gold plate

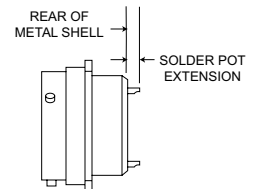
*Finish as noted in How to Order section.

ELECTRICAL (Size #16, #20 and #22)

Filter Description	Low Freq.	Mid Freq.	Std. Freq.	High Freq.
Catalog Indicator	L	M	T	H
Voltage Rating	200 VDC - 120 VAC rms 400 Hz			
Current Rating (amp DC)	15 amp - size 16/7.5 amp - size 20/5.0 amp, size 22			
Insulation Resistance, 2 min. electrification time max. at 25° C	5,000 megohms min. @ 100 VDC			
DWV, sea level, with 500 microamps max. charge/discharge	300 VDC size 22 500 VDC size 16 & 20	500 VDC		
Attenuation per MIL-STD-220 at 25° C with no applied voltage or current.	Capacitance at 1 KHz, 0.1 V rms Picofarads	32,000 45,000	8,000 12,000	3300 5000 850 1,300
	Freq. MHz	0.1	2 min.	-
		1	10 min.	2 min.
		2	16 min.	7 min.
		10	40 min.	18 min.
		100	60 min.	55 min.
		500 to 1000	60 min.	60 min.
Filter Type/Construction	Pi	Pi	Pi	Pi

Consult factory for higher or mixed attenuation values and higher voltage ratings.

Contact Extension - All Connectors

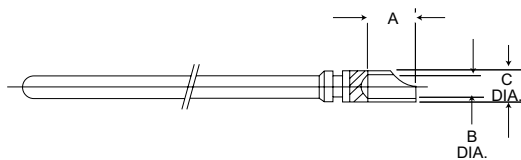


Note: Solder pot extension typically will be .200 (5.08) max. beyond shell rear.

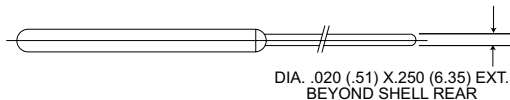
Contact - Pin and Sockets

Standard Contact Terminations

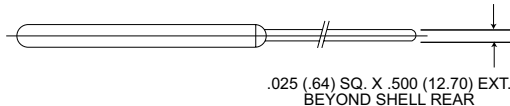
Finish: Gold plate per MIL-G-45204, Type 1, Class 1, over nickel plate per QQ-N-290.



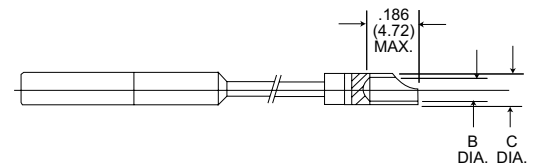
Pin/Solder Pot



Pin/Printed Circuit



Pin/Square Post



Socket/Solder Pot

Contact Size	A	B Dia.	C Dia.
#22	.115 (2.92)	.039 (0.97)	.056 (1.42)
	.095 (2.41)	.035 (0.89)	.051 (1.30)
#20	.125 (3.18)	.047 (1.19)	.066 (1.68)
	.110 (2.79)	.042 (1.07)	.061 (1.55)
#16	.170 (4.32)	.077 (1.96)	.104 (2.64)
	.150 (3.81)	.068 (1.73)	.097 (2.46)



MIL-DTL-38999 Series I, II, III, IV Filter Connectors

Contact Arrangements

Engaging view, pin insert

Series I, III & IV
Series II
No. of Contacts
Service Ratings



9-35
8-35
6 #22D
M



11-5
10-5
5 #20
I



11-98
10-98
6 #20
I



11-35
10-35
13 #22D
M



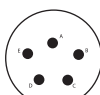
13-8
12-8
8 #20
I



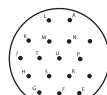
13-98
12-98
10 #20
I



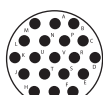
13-35
12-35
22 #22D
M



15-5
14-5
5 #16
II



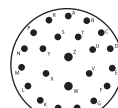
15-18
14-18
18 #20
I



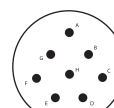
15-19
14-19
19 #20
I



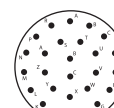
15-35
14-35
37 #22D
M



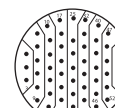
-
16-99
21 #20, 2 #16
I



17-8
16-8
8 #16
II

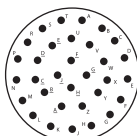


17-26
16-26
26 #20
I

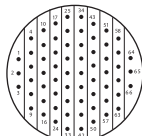


17-35
16-35
55 #22D
M

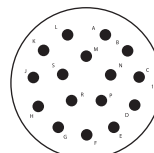
Series I, III & IV
Series II
No. of Contacts
Service Ratings



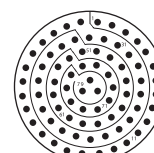
19-32
18-32
32 #20
I



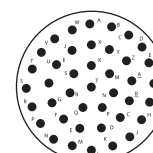
19-35
18-35
66 #22D
M



21-16
20-16
16 #16
II

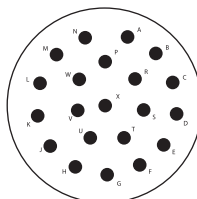


21-35
20-35
79 #22D
M

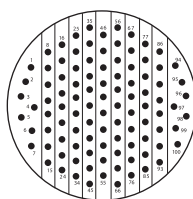


21-41
20-41
41- #20
I

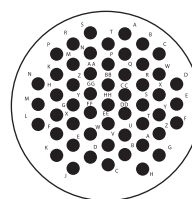
Series I, III & IV
Series II
No. of Contacts
Service Ratings



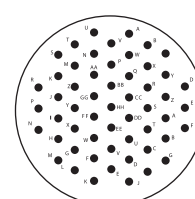
23-21
22-21
21 #16
II



23-35
22-35
100 #22D
M

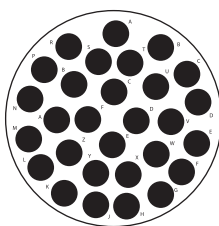


23-53
22-53
53 #20
I

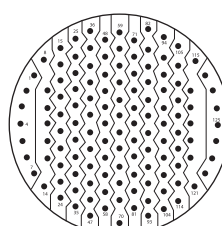


23-55
22-55
55 #20
I

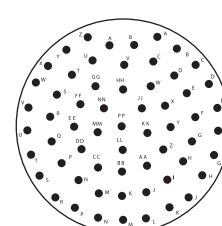
Series I, III & IV
Series II
No. of Contacts
Service Ratings



25-29
24-29
29 #16
I



25-35
24-35
128 #22D
M

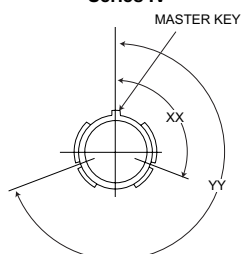


25-61
24-61
61 #20
I

Please consult factory for availability of layouts not shown.

Polarizing Positions

Series IV



Front face of receptacle shown. Polarizing keys are external.

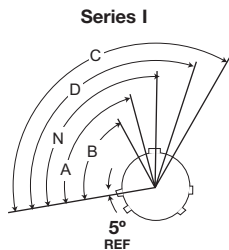
Key Arrangements	XX	YY
N	110°	250°
A	100°	260°
B	90°	270°
C	80°	280°
D	70°	290°

See page 24 for Series I, II and III polarization.



MIL-DTL-38999 Series I, II, III, IV Filter Connectors

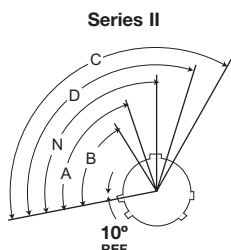
Polarizing Positions



Front face of receptacle (plug opposite). Insert arrangement does not rotate with main key-keyway. The master key is rotated to provide shell polarization; the minor keys remain fixed.

Angle of Rotation (Degrees)

Shell Size	Normal	A	B	C	D
9	95°	77°			113°
11	95°	81°	67°	123°	109°
13	95°	75°	63°	127°	115°
15	95°	74°	61°	129°	116°
17	95°	77°	65°	125°	113°
19	95°	77°	65°	125°	113°
21	95°	77°	65°	125°	113°
23	95°	80°	69°	121°	110°
25	95°	80°	69°	121°	110°



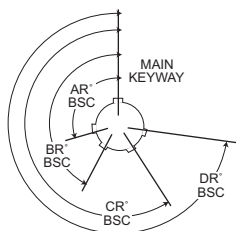
Front face of receptacle (plug opposite). Insert arrangement does not rotate with main key-keyway. The master key is rotated to provide shell polarization; the minor keys remain fixed.

Angle of Rotation (Degrees)

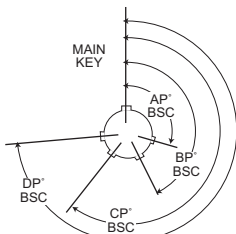
Shell Size	Normal	A	B	C	D
8	100°	82°			118°
10	100°	86°	72°	128°	114°
12	100°	80°	68°	132°	120°
14	100°	79°	66°	134°	121°
16	100°	82°	70°	130°	118°
18	100°	82°	70°	130°	118°
20	100°	82°	70°	130°	118°
22	100°	85°	74°	126°	115°
24	100°	85°	74°	126°	115°

Series III

RECEPTACLE (Front face shown)



PLUG (Front face shown)



NOTES

1. All Angles are BSC
2. The insert arrangement does not rotate with main key/keyway
3. All minor keys are rotated to provide shell polarization, the master key remains fixed at twelve o'clock position.
4. Polarization is different from Series I and II.

Key & Keyway Arrangement Identification Letter

Key Locations

Shell Size	Key & Keyway Arrangement Identification Letter	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
9	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
11 13 and 15	E	91	131	197	240
	N	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
17 and 19	D	119	146	176	298
	E	51	141	184	242
	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
21 23 and 25	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
	N	80	142	196	293
	A	135	170	200	310
23 and 25	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
25	E	79	153	197	272



Special In-line Cable Filter Adapters



Filter adapters are designed to be engaged between connectors in an existing circuit to provide instant filtering without having to rewire. They are environmentally sealed and have pin contacts in the plug end and socket contacts in the end that mates with the receptacle. The filter is concentric around the central pin-socket contact. Electrical and operating characteristics are the same as in the standard TKJ file connectors.

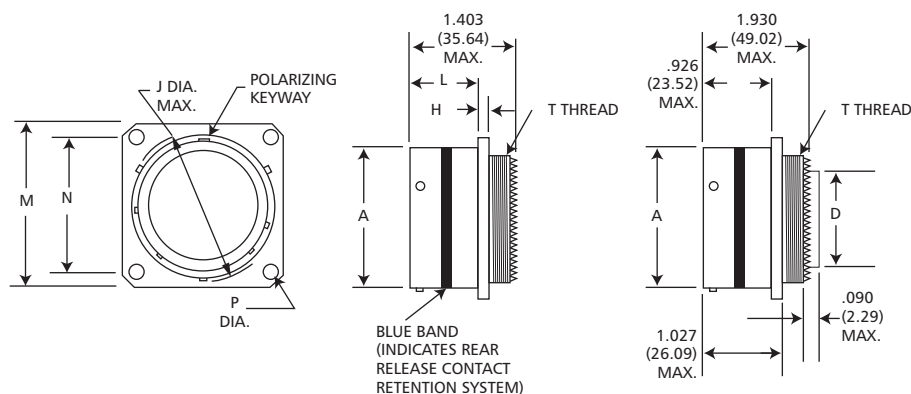
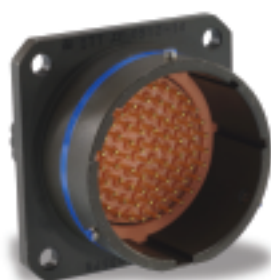
These adapters will mate with all MIL-DTL-38999 connectors having like contact arrangements. For proper performance both the mating receptacle and panel must have a conductive finish. Please contact Customer Service for dimensions.

Flange mounted in-line connectors, similar to MS27662, are also available. They are environmentally sealed and use the same filters as in regular TKJ receptacles. Design permits engaging cable plugs to both ends.

Contact Customer Service for proper nomenclature and availability of the in-line cable adapters and in-line flange mounted TKJ connectors.

Wall Mounting Receptacle

TKJL0

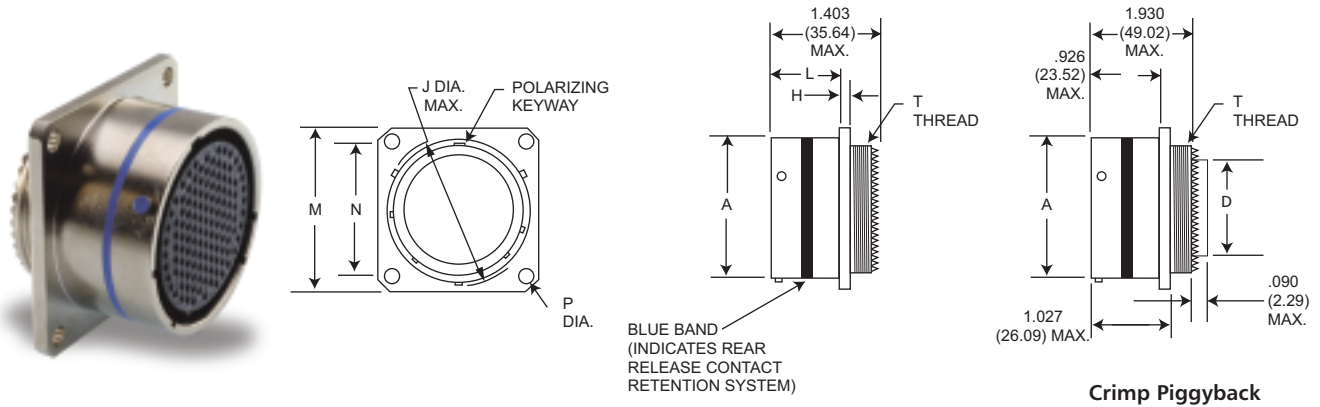


Crimp Piggyback

Shell Size	A Dia. Max.	D Dia. Max.	G Dia. Max.	H Max.	J Dia. Max.	L Max.	M Max.	N T.P.	P Dia. Max.	T Thread
9	.573 (14.55)	.299 (7.59)	.562 (14.27)	.100 (2.54)	.662 (16.81)	.632 (16.05)	.958 (24.33)	.719 (18.26)	.138 (3.51)	.5625-24UNEF-2A
11	.701 (17.81)	.427 (10.85)	.626 (15.90)	.100 (2.54)	.810 (20.57)	.632 (16.05)	1.051 (26.70)	.812 (20.62)	.138 (3.51)	11/16-24UNEF-2A
13	.851 (21.62)	.541 (13.74)	.751 (19.07)	.100 (2.54)	.960 (24.38)	.632 (16.05)	1.145 (29.08)	.906 (23.01)	.138 (3.51)	13/16-20UNEF-2A
15	.976 (24.79)	.666 (16.92)	.876 (22.25)	.100 (2.54)	1.085 (27.56)	.632 (16.05)	1.239 (31.47)	.969 (24.61)	.138 (3.51)	15/16-20UNEF-2A
17	1.101 (27.97)	.791 (20.09)	1.001 (25.42)	.100 (2.54)	1.210 (30.73)	.632 (16.05)	1.332 (33.83)	1.062 (26.97)	.138 (3.51)	1-1/16-18UNEF-2A
19	1.208 (30.68)	.888 (22.35)	1.063 (27.00)	.100 (2.54)	1.317 (33.45)	.632 (16.05)	1.458 (37.03)	1.156 (29.36)	.138 (3.51)	1-1/16-18UNEF-2A
21	1.333 (33.86)	1.005 (25.52)	1.188 (30.17)	.130 (3.30)	1.442 (36.63)	.602 (15.29)	1.582 (40.18)	1.250 (31.75)	.138 (3.51)	1-3/16-18UNEF-2A
23	1.458 (37.03)	1.130 (28.70)	1.313 (33.35)	.130 (3.30)	1.567 (39.80)	.602 (15.29)	1.708 (43.38)	1.375 (34.93)	.157 (3.99)	1-5/16-18UNEF-2A
25	1.583 (40.21)	1.255 (31.88)	1.438 (36.52)	.130 (3.30)	1.692 (42.98)	.602 (15.29)	1.832 (46.53)	1.500 (38.10)	.157 (3.99)	1-7/16-18UNEF-2A

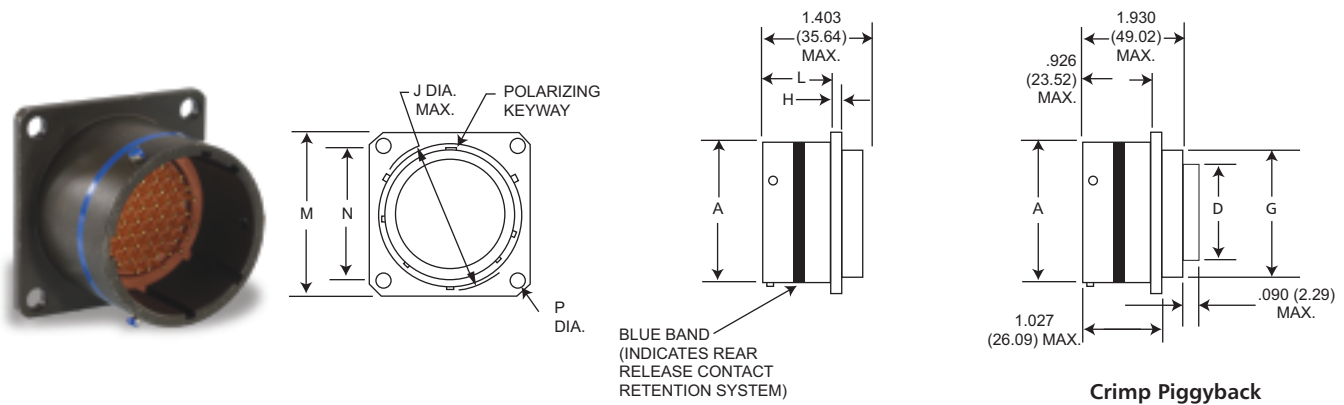
Wall Mounting Receptacle (Back Panel)

TKJL3



Box Mounting Receptacle (No Rear Threads)

TKJL5



Shell Size	A Dia. Max.	D Dia. Max.	G Dia. Max.	H Max.	J Dia. Max.	L Max.	M Max.	N T.P.	P Dia. Max.	T Thread
9	.573 (14.55)	.299 (7.59)	.562 (14.27)	.100 (2.54)	.662 (16.81)	.820 (20.83)	.958 (24.33)	.719 (18.26)	.138 (3.51)	.5625-24UNEF-2A
11	.701 (17.81)	.427 (10.85)	.594 (15.08)	.100 (2.54)	.810 (20.57)	.820 (20.83)	1.051 (26.70)	.812 (20.62)	.138 (3.51)	11/16-24UNEF-2A
13	.851 (21.62)	.541 (13.74)	.720 (18.28)	.100 (2.54)	.960 (24.38)	.820 (20.83)	1.145 (29.08)	.906 (23.01)	.138 (3.51)	13/16-20UNEF-2A
15	.976 (24.79)	.666 (16.92)	.844 (21.43)	.100 (2.54)	1.085 (27.56)	.820 (20.83)	1.239 (31.47)	.969 (24.61)	.138 (3.51)	15/16-20UNEF-2A
17	1.101 (27.97)	.791 (20.09)	.969 (24.61)	.100 (2.54)	1.210 (30.73)	.820 (20.83)	1.332 (33.83)	1.062 (26.97)	.138 (3.51)	1-1/16-18UNEF-2A
19	1.208 (30.68)	.880 (22.35)	1.063 (27.00)	.100 (2.54)	1.317 (33.45)	.820 (20.83)	1.458 (37.03)	1.156 (29.36)	.138 (3.51)	1-1/16-18UNEF-2A
21	1.333 (33.86)	1.005 (25.52)	1.188 (30.17)	.130 (3.30)	1.442 (36.63)	.790 (20.07)	1.582 (40.18)	1.250 (31.75)	.138 (3.51)	1-3/16-18UNEF-2A
23	1.458 (37.03)	1.130 (28.70)	1.313 (33.35)	.130 (3.30)	1.567 (39.80)	.790 (20.07)	1.708 (43.38)	1.375 (34.93)	.157 (3.99)	1-5/16-18UNEF-2A
25	1.583 (40.21)	1.255 (31.88)	1.438 (36.52)	.130 (3.30)	1.692 (42.98)	.790 (20.07)	1.832 (46.53)	1.500 (38.10)	.157 (3.99)	1-7/16-18UNEF-2A

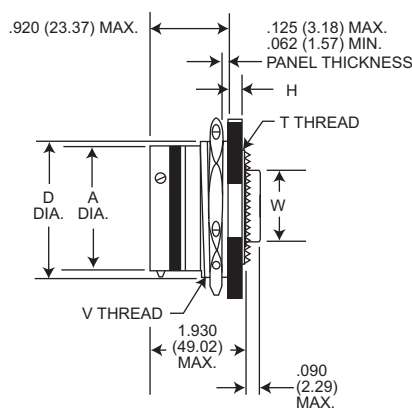
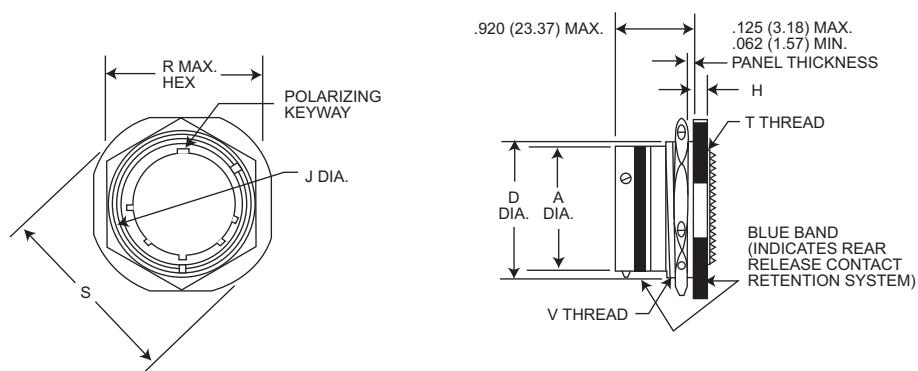
Dimensions shown in inch (mm)
 Specifications and dimensions subject to change

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Jam Nut Receptacle

TKJL7

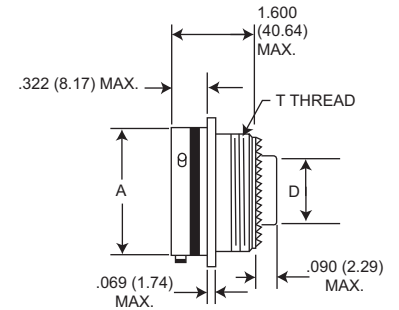
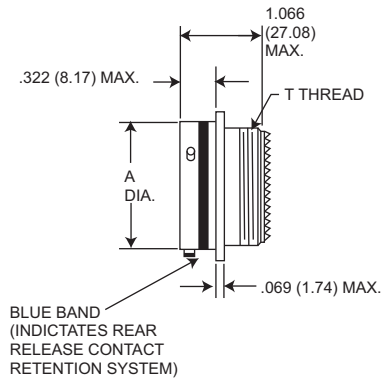
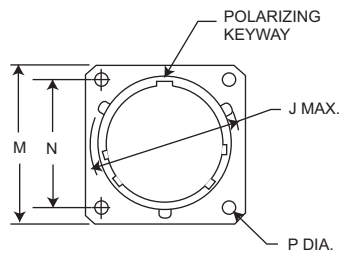


Crimp Piggyback

Shell Size	A Dia. Max.	D Max.	H Max.	J Dia. Max.	R Max. Hex.	S Dia. Max.	T Thread	V Thread Class 2A	W Dia. Max.
9	.573 (14.55)	.655 (16.64)	.120 (3.05)	.662 (16.81)	.892 (22.66)	1.204 (30.58)	.5625-24UNEF-2A	11/16-24UNEF	.299 (7.59)
11	.701 (17.81)	.755 (19.18)	.120 (3.05)	.810 (20.57)	1.017 (25.83)	1.391 (35.33)	11/16-24UNEF-2A	13/16-24UNEF	.427 (10.85)
13	.851 (21.62)	.942 (23.93)	.120 (3.05)	.960 (24.38)	1.205 (30.61)	1.516 (35.51)	13/16-20UNEF-2A	1-20UNEF	.541 (13.74)
15	.976 (24.79)	1.066 (27.08)	.120 (3.05)	1.085 (27.56)	1.329 (33.76)	1.641 (41.68)	15/16-20UNEF-2A	1-1/8-18UNEF	.666 (16.92)
17	1.101 (27.97)	1.191 (30.25)	.120 (3.05)	1.210 (30.73)	1.455 (36.96)	1.766 (44.86)	1-1/16-18UNEF-2A	1-1/4-18UNEF	.791 (20.09)
19	1.208 (30.68)	1.316 (33.43)	.151 (3.84)	1.317 (33.45)	1.579 (40.11)	1.954 (49.63)	1-1/16-18UNEF-2A	1-3/8-18UNEF	.880 (22.35)
21	1.333 (33.86)	1.441 (36.60)	.151 (3.84)	1.442 (36.63)	1.705 (43.31)	2.078 (52.78)	1-3/16-18UNEF-2A	1-1/2-18UNEF	1.005 (25.52)
23	1.458 (37.03)	1.566 (39.78)	.151 (3.84)	1.567 (39.80)	1.829 (46.46)	2.204 (55.98)	1-5/16-18UNEF-2A	1-5/8-18UNEF	1.130 (28.70)
25	1.583 (40.21)	1.691 (42.95)	.151 (3.84)	1.692 (42.98)	20.17 (51.23)	2.328 (59.13)	1-7/16-18UNEF-2A	1-3/4-18UNS	1.255 (31.88)

Wall Mounting Receptacle

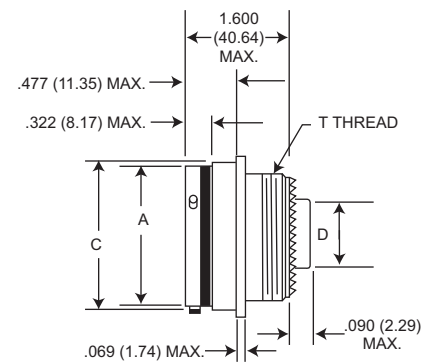
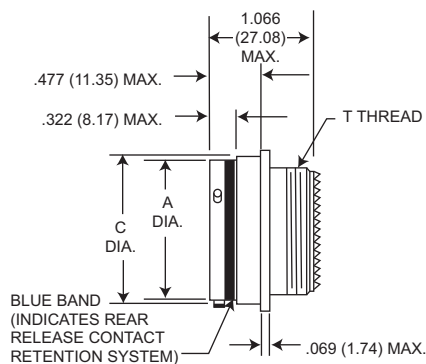
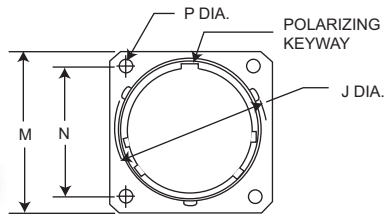
TKJ0



Crimp Piggyback

Wall Mounting Receptacle (Back Panel)

TKJ3



Crimp Piggyback

Shell Size	A Dia. Max.	C Dia. Max.	D Dia. Max.	G Dia. Max.	J Dia. Max.	M Max.	N T.P.	P +.005 (0.13) -.010 (0.25)	T Thread
8	.474 (12.04)	.547 (13.89)	.299 (7.59)	.562 (14.27)	.563 (14.30)	.828 (21.03)	.594 (15.09)	.125 (3.18)	.5625-24UNEF-2A
10	.591 (15.01)	.672 (17.06)	.427 (10.85)	.594 (15.08)	.680 (17.27)	.954 (24.23)	.719 (18.26)	.125 (3.18)	11/16-24UNEF-2A
12	.751 (19.08)	.844 (21.43)	.541 (13.74)	.720 (13.28)	.859 (21.82)	1.047 (26.59)	.812 (20.62)	.125 (3.18)	13/16-20UNEF-2A
14	.876 (22.25)	.969 (24.61)	.666 (16.92)	.844 (21.43)	.984 (24.99)	1.141 (28.98)	.906 (23.01)	.125 (3.18)	15/16-20UNEF-2A
16	1.001 (25.43)	1.094 (27.78)	.791 (20.09)	.969 (24.61)	1.108 (28.14)	1.234 (31.34)	.969 (24.61)	.125 (3.18)	1-1/16-18UNEF-2A
18	1.126 (28.60)	1.219 (30.96)	.880 (22.35)	1.063 (27.00)	1.233 (31.32)	1.328 (33.73)	1.062 (26.97)	.125 (3.18)	1-1/16-18UNEF-2A
20	1.251 (31.78)	1.344 (34.13)	1.005 (25.52)	1.188 (30.17)	1.358 (34.49)	1.453 (36.91)	1.156 (27.36)	.125 (3.18)	1-3/16-18UNEF-2A
22	1.376 (34.95)	1.469 (37.31)	1.130 (28.70)	1.313 (33.35)	1.483 (37.67)	1.578 (39.08)	1.250 (31.76)	.125 (3.18)	1-5/16-18UNEF-2A
24	1.501 (38.13)	1.594 (40.48)	1.255 (31.88)	1.438 (36.52)	1.610 (40.89)	1.703 (43.26)	1.375 (34.92)	.152 (3.86)	1-7/16-18UNEF-2A

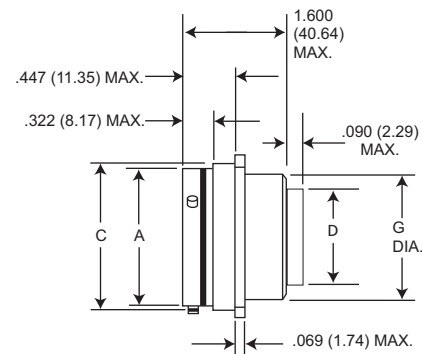
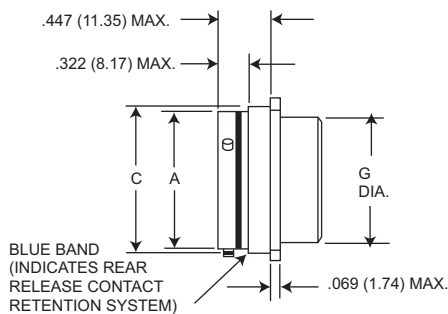
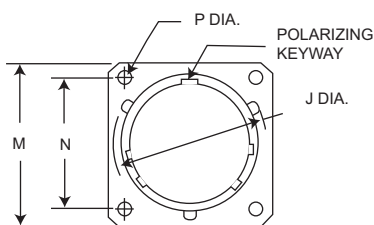
Dimensions shown in inch (mm)

Specifications and dimensions subject to change

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Box Mounting Receptacle (Back Panel, No Rear Threads)

TKJ5

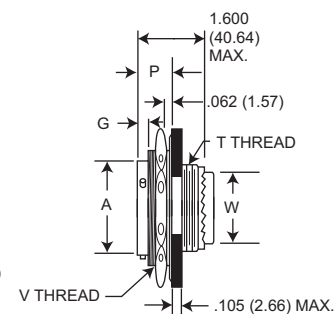
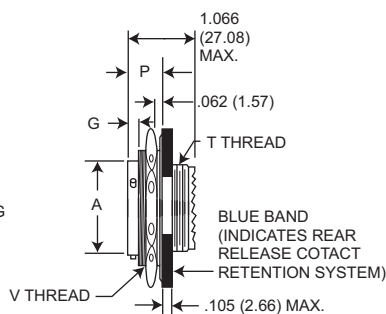
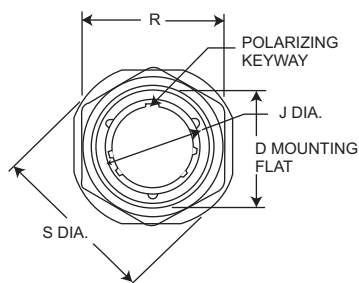


Crimp Piggyback

Shell Size	A Dia. Max.	C Dia. Max.	D Dia. Max.	G Dia. Max.	J Dia. Max.	M Max.	N T.P	P +.005 (0.13) -.010 (0.25)
8	.474 (12.04)	.547 (13.89)	.299 (7.59)	.562 (14.27)	.563 (14.30)	.828 (21.03)	.594 (15.09)	.125 (3.18)
10	.591 (15.01)	.672 (17.06)	.427 (10.85)	.594 (15.08)	.680 (17.27)	.954 (24.23)	.719 (18.26)	.125 (3.18)
12	.751 (19.08)	.844 (21.43)	.541 (13.74)	.720 (18.28)	.859 (21.82)	1.047 (26.59)	.812 (20.62)	.125 (3.18)
14	.876 (22.25)	.969 (24.61)	.666 (16.92)	.844 (21.43)	.984 (24.99)	1.141 (28.98)	.906 (23.01)	.125 (3.18)
16	1.001 (25.42)	1.094 (27.78)	.791 (20.09)	.969 (24.61)	1.108 (28.14)	1.234 (31.24)	.969 (24.61)	.125 (3.18)
18	1.126 (28.60)	1.219 (30.96)	.880 (22.35)	1.063 (27.00)	1.233 (31.32)	1.328 (33.73)	1.062 (26.97)	.125 (3.18)
20	1.251 (31.77)	1.344 (34.13)	1.005 (25.52)	1.188 (30.17)	1.358 (34.49)	1.453 (36.91)	1.156 (29.36)	.125 (3.18)
22	1.376 (34.95)	1.469 (37.31)	1.130 (28.70)	1.313 (33.35)	1.483 (37.67)	1.578 (40.08)	1.250 (31.75)	.125 (3.18)
24	1.501 (38.13)	1.594 (40.48)	1.255 (31.88)	1.438 (36.52)	1.610 (40.89)	1.703 (43.66)	1.375 (34.92)	.152 (3.86)

Jam Nut Receptacle

TKJ7

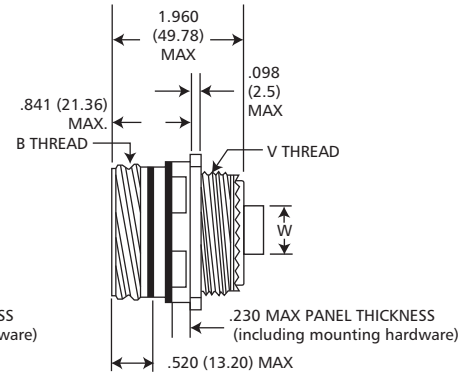
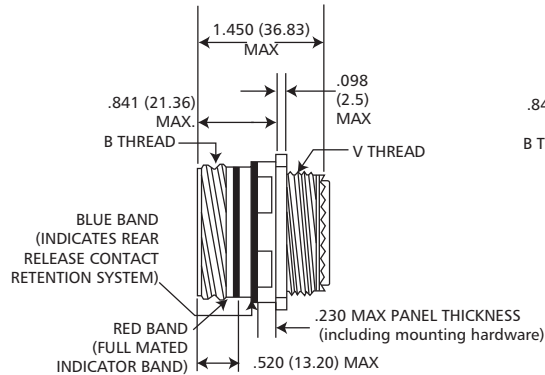
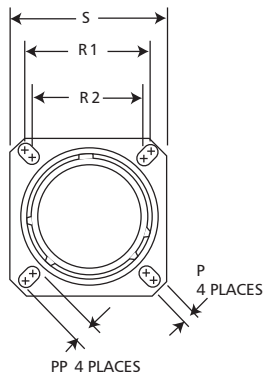


Crimp Piggyback

Shell Size	C Dia. Max.	D Max.	G Max.	J Max.	P Max.	R Max. Hex.	S Dia. Max.	T Thread	V Thread	W Dia. Max.
8	.474 (12.04)	.818 (20.78)	.145 (3.68)	.563 (14.30)	.443 (11.25)	1.079 (27.41)	1.381 (35.08)	.5625-24UNEF-2A	7/8-20UNEF-2A	.299 (7.59)
10	.591 (15.01)	.942 (23.93)	.145 (3.68)	.680 (17.27)	.443 (11.25)	1.205 (30.61)	1.506 (38.25)	11/16-24UNEF-2A	1-20UNEF-2A	.427 (10.85)
12	.751 (19.08)	1.066 (27.08)	.145 (3.68)	.859 (21.82)	.443 (11.25)	1.329 (33.76)	1.631 (41.43)	13/16-20UNEF-2A	1-1/8-18UNEF-2A	.541 (13.74)
14	.876 (22.25)	1.191 (30.25)	.145 (3.68)	.984 (24.99)	.443 (11.25)	1.455 (36.96)	1.756 (44.60)	15/16-20UNEF-2A	1-1/4-18UNEF-2A	.666 (16.92)
16	1.001 (25.43)	1.321 (33.55)	.145 (3.68)	1.108 (28.14)	.443 (11.25)	1.579 (40.11)	1.944 (49.38)	1-1/16-18UNEF-2A	1-3/8-18UNEF-2A	.791 (20.09)
18	1.126 (28.60)	1.441 (36.60)	.145 (3.68)	1.233 (31.32)	.443 (11.25)	1.705 (43.31)	2.022 (51.36)	1-1/16-18UNEF-2A	1-1/2-18UNEF-2A	.880 (22.35)
20	1.251 (31.78)	1.566 (39.78)	.171 (4.34)	1.358 (34.49)	.469 (11.91)	1.829 (46.46)	2.147 (54.53)	1-3/16-18UNEF-2A	1-5/8-18UNEF-2A	1.005 (25.52)
22	1.376 (33.95)	1.691 (42.95)	.171 (4.34)	1.483 (37.67)	.469 (11.91)	2.017 (51.23)	2.271 (57.68)	1-5/16-18UNEF-2A	1-3/4-18UNEF-2A	1.130 (28.70)
24	1.501 (38.13)	1.816 (46.13)	.171 (4.34)	1.610 (40.89)	.469 (11.91)	2.142 (54.41)	2.396 (60.86)	1-7/16-18UNEF-2A	1-7/8-18UNEF-2A	1.255 (31.88)

Wall Mounting Receptacle (No Rear Threads)

TKJA0

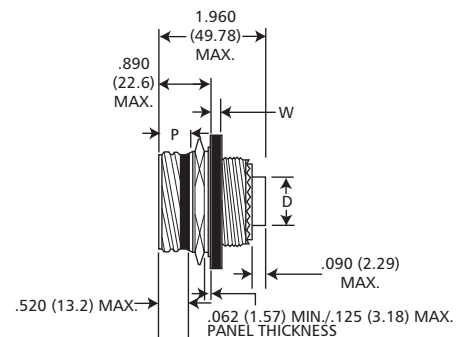
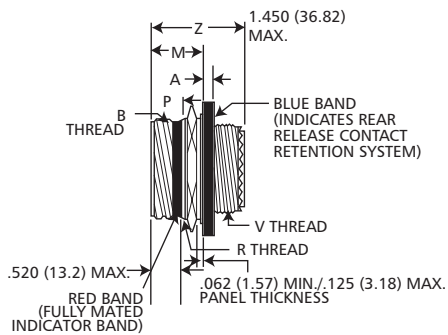
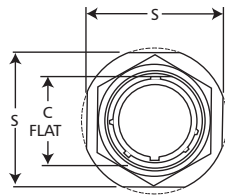


Crimp Piggyback

Shell Size	Shell size Code	P Dia. Max.	PP Max.	R ₁	R ₂	S Max.	W Max.	BB Thread
								.01P-.03L-TS-2A
9	A	.132 (3.25)	.220 (5.59)	.719 (18.26)	.594 (15.09)	.949 (24.1)	.098 (2.50)	.6250 (15.88)
11	B	.132 (3.25)	.198 (5.03)	.812 (20.62)	.719 (18.26)	1.043 (26.5)	.098 (2.50)	.7500 (19.05)
13	C	.132 (3.25)	.198 (5.03)	.906 (23.01)	.812 (20.62)	1.138 (28.9)	.098 (2.50)	.8750 (22.23)
15	D	.132 (3.25)	.198 (5.03)	.969 (24.61)	.906 (23.01)	1.232 (31.3)	.098 (2.50)	1.000 (25.46)
17	E	.132 (3.25)	.198 (5.03)	1.062 (26.97)	.969 (24.61)	1.323 (33.6)	.098 (2.50)	1.1875 (30.16)
19	F	.132 (3.25)	.198 (5.03)	1.156 (29.36)	1.062 (26.97)	1.449 (36.8)	.098 (2.50)	1.2500 (31.75)
21	G	.132 (3.25)	.198 (5.03)	1.250 (31.75)	1.156 (29.36)	1.575 (40.0)	.126 (3.20)	1.375 (34.93)
23	H	.158 (4.01)	.246 (6.25)	1.375 (34.92)	1.250 (31.75)	1.701 (43.2)	.126 (3.20)	1.5000 (38.10)
25	J	.158 (4.01)	.246 (6.25)	1.500 (38.10)	1.375 (34.92)	1.823 (46.3)	.126 (3.20)	1.6250 (41.28)

Jam Nut Receptacle (No Rear Threads)

TKJA7



Crimp Piggyback

Shell Size	Shell size Code	A Dia. Max.	B Flat Max.	C Max.	D Dia. Max.	G Thread 1.0-6g 0.100 R	P Max.	S Max.	W Max.	BB Thread .01P-.03L-TS-2A
9	A	1.201 (30.5)	.655 (16.63)	.880 (22.31)	.299 (7.59)	M17	.571 (14.5)	1.079 (27.4)	.114 (2.9)	.6250 (15.88)
11	B	1.386 (35.2)	.755 (19.17)	.880 (22.31)	.427 (10.85)	M20	.571 (14.5)	1.268 (32.2)	.114 (2.9)	.7500 (19.05)
13	C	1.512 (38.4)	.942 (23.92)	.890 (22.6)	.541 (13.74)	M25	.579 (14.7)	1.390 (35.3)	.114 (2.9)	.8750 (22.23)
15	D	1.638 (41.6)	1.066 (27.07)	.890 (22.6)	.666 (16.92)	M28	.579 (14.7)	1.516 (38.5)	.114 (2.9)	1.000 (25.46)
17	E	1.764 (44.8)	1.191 (30.25)	.890 (22.6)	.791 (20.09)	M32	.579 (14.7)	1.642 (41.7)	.114 (2.9)	1.1875 (30.16)
19	F	1.949 (49.5)	1.316 (33.42)	.890 (22.6)	.880 (22.35)	M35	.579 (14.7)	1.827 (46.4)	.146 (3.7)	1.2500 (31.75)
21	G	2.075 (52.7)	1.441 (36.60)	.890 (22.6)	1.005 (25.52)	M38	.579 (14.7)	1.953 (49.6)	.146 (3.7)	1.375 (34.93)
23	H	2.201 (55.9)	1.566 (39.77)	.890 (22.6)	1.130 (28.70)	M41	.579 (14.7)	2.079 (52.8)	.146 (3.7)	1.5000 (38.10)
25	J	2.323 (59.0)	1.691 (42.95)	.890 (22.6)	1.255 (31.88)	M44	.579 (14.7)	2.205 (56.0)	.146 (3.7)	1.6250 (41.28)

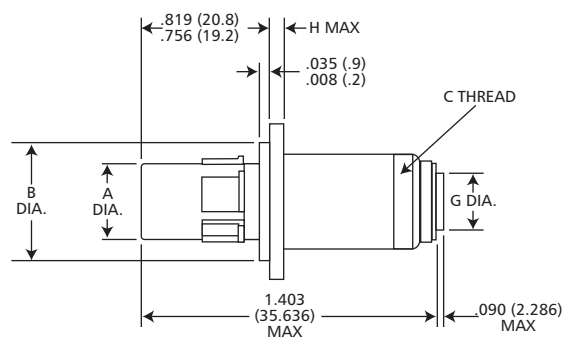
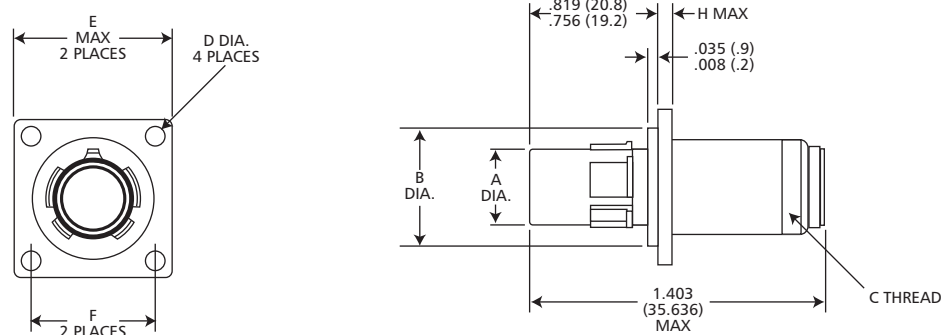
Dimensions shown in inch (mm)

Specifications and dimensions subject to change

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Wall Mounting Receptacle

TKJB0

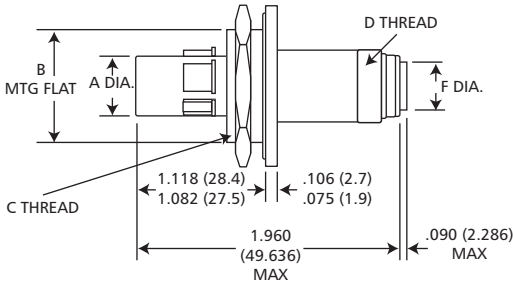
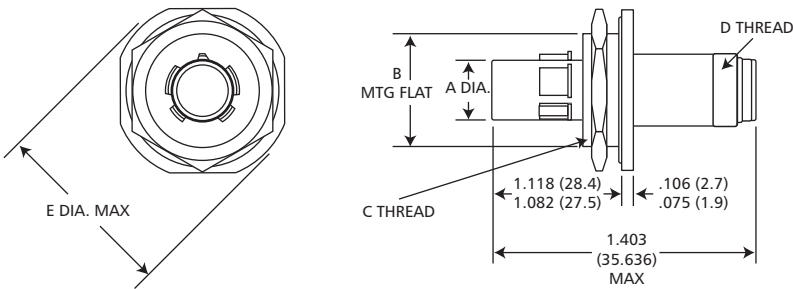


Crimp Piggyback

Shell Size	Shell size Code	A Dia. Max.	B Dia. Max.	C* Thread 1.0-6g 0.100 R	D ± .008 (.20) Dia.	E Dia. Max.	F Basic	G Dia. Max.	H Max
11	B	.509 (12.93)	.793 (20.15)	M15	.130 (3.3)	1.051 (26.7)	.812 (20.62)	.427 (10.85)	.102 (2.590)
13	C	.634 (16.10)	.919 (23.35)	M18	.130 (3.3)	1.146 (29.1)	.906 (23.02)	.541 (13.74)	.102 (2.590)
15	D	.759 (19.28)	1.044 (26.52)	M22	.130 (3.3)	1.240 (31.5)	.969 (24.62)	.666 (16.92)	.102 (2.590)
17	E	.885 (22.48)	1.170 (29.72)	M25	.130 (3.3)	1.335 (33.9)	1.062 (26.98)	.791 (20.09)	.102 (2.590)
19	F	1.009 (25.63)	1.294 (32.87)	M28	.130 (3.3)	1.461 (37.1)	1.156 (29.36)	.880 (22.35)	.102 (2.590)
21	G	1.134 (28.80)	1.419 (36.05)	M31	.130 (3.3)	1.583 (40.2)	1.250 (31.76)	1.005 (25.52)	.134 (3.403)
23	H	1.259 (31.98)	1.544 (39.22)	M34	.150 (3.8)	1.709 (43.4)	1.375 (34.92)	1.130 (28.70)	.134 (3.403)
25	J	1.384 (25.15)	1.669 (42.40)	M37	.150 (3.8)	1.835 (46.6)	1.500 (38.10)	1.255 (31.880)	.134 (3.403)

Jam Nut Receptacle

TKJB7



Crimp Piggyback

Shell Size	Shell size Code	A Dia. Max.	B Mtg. Flat (Max.)	C* Thread 1.0-6g 0.100 R	D Thread 1.0-6g 0.100 R	E Dia. Max.	F Dia. Max.
11	B	.509 (12.93)	.942 (23.93)	25	15	1.520 (38.6)	.427 (10.85)
13	C	.634 (16.10)	1.066 (27.08)	28	18	1.642 (41.7)	.541 (13.74)
15	D	.759 (19.28)	1.191 (30.26)	31	22	1.768 (44.9)	.666 (16.92)
17	E	.885 (22.48)	1.321 (33.56)	34	25	1.957 (49.7)	.791 (20.09)
19	F	1.009 (25.63)	1.441 (36.61)	38	28	2.035 (51.7)	.880 (22.35)
21	G	1.134 (28.80)	1.566 (39.78)	41	31	2.157 (54.8)	1.005 (25.52)
23	H	1.259 (31.98)	1.691 (42.96)	44	34	2.283 (58.0)	1.130 (28.70)
25	J	1.384 (25.15)	1.816 (46.13)	47	37	2.409 (61.2)	1.255 (31.880)