



Solder

Crimp

- General purpose
- Closed-entry socket contacts
- Solder termination

KPT connectors are a series of general - purpose, environment - resistant, miniature circular connectors, qualified for use in industrial applications calling for quick - disconnect connectors with fixed contacts for solder termination. These miniature circular connectors are grouped into two series ranging from general purpose solder pot connectors . . . to high performance, crimp connectors . . . to connectors with high contact density. This broad range provides the most complete family of 26482 connectors available today. The versatility of these connectors is proven by the fulfillment of requirements ranging from general purpose to space environmental.

In addition to the two basic series, connectors for special applications are also available. They include RFI filtering versions (with loss pass internal filter pin contacts), hermetic connectors for high pressure watertight requirements, and twist - on pull - off couplers for MIL-C-26482 plugs.

This series is intermateable and intermountable with all MIL-C-26482 connectors, whether solder or crimp type and is available with many materials, finishers and configurations.

How to Order - KPT - Solder Contact Connectors

SERIES PREFIX

KPT - ITT Cannon prefix
MS - MIL-C-26482 prefix

SHELL STYLE

- Cannon Designation
- 00 - wall mounting receptacle
 - 01 - cable connecting plug
 - 02 - box mounting receptacle (Class E only)
 - * 03 - wall mounting receptacle without grommet, ferrule and endbell
 - * 04 - cable connecting plug without grommet, ferrule and endbell
 - * 05 - straight plug without grommet, ferrule, and endbell
 - 06 - straight plug
 - 07 - jam nut receptacle (available in hermetic version also)
 - 08 - 90° angle plug
 - B - thru-bulkhead receptacle (Class E only)

* Consult factory for details

SHELL STYLE (cont'd)

- MS Designation
- 3110 - wall mounting receptacle
 - 3111 - cable connecting plug
 - 3112 - box mounting receptacle (Class E only)
 - 3114 - jam nut receptacle
 - 3116 - straight plug
 - 3119 - thru-bulkhead receptacle (Class E only)

SERIES PREFIX

SHELL STYLE

CLASS

SHELL SIZE

CONTACT ARRANGEMENT

CONTACT STYLE

ALTERNATE INSERT POSITION

MODIFICATION CODE

CLASS

- A - general duty (not MS approved)
- B - general duty with strain relief without grommet & ferrules (may be used for potting when strain relief is desired) (not MS approved)
- E - grommet seal except on 02 and 3112 (MS specification)
- F - grommet seal with strain relief (MS specification)
- J - water tight gland seal with strain relief for jacketed cable (MS specification)
- P - potted (MS specification)

SHELL SIZE

8, 10, 12, 14, 16, 18, 20, 22, and 24

MS 3110 E 22 - 36 P Y
KPT 00 E 22 - 36 P Y **

CONTACT ARRANGEMENT

See contact arrangement page 149.

CONTACT STYLE

P - pin; S - socket

ALTERNATE INSERT POSITION

W, X, Y and Z. (Omit for normal.)

MODIFICATION CODE

- Omit first (0) of shell style indication when using modifications code.
- 07 - clear chromate over cadmium
- 16 - twist-pull lanyard release coupler (applied cable to plug only).
- 23 - grounding springs fingers (applicable to plug only)

How to Order - KPTB Thru-Bulkhead Receptacle Connectors

- General Purpose
- Double ended pin and socket contacts
- Contains KPT socket insert
- Nonremovable contacts

KPT connectors are a series of general - purpose, miniature circular connectors, qualified for use in military applications. They are also widely used in industrial applications. The KPTB in a thru-bulkhead version with double faced pin and socket insert construction allowing mating from both ends. They contain KPT socket inserts with feed-thru (pin/socket) non-removable contacts.

The thru-bulkhead receptacle is provided for applications requiring the disconnection of a power source from either side of a panel. A typical connector to be used if air leakage requirements are critical.

SERIES PREFIX _____ KPTB 22 - 55 PS Y
SHELL SIZE _____
CONTACT ARRANGEMENT _____
CONTACT STYLE (pin & socket) _____
ALTERNATE INSERT POSITION _____

MIL-C-26482 PREFIX _____ MS3119 E 22 - 55 Y
CLASS _____
SHELL SIZE _____
CONTACT ARRANGEMENT _____
ALTERNATE INSERT POSITION _____

How to Order - KPSE Crimp Contact Connectors

SERIES PREFIX _____	MS	3120	E	18 - 32	P	X	
SHELL STYLE _____	KPSE	00	E	18 - 32	P	X	**
CLASS _____							
SHELL SIZE _____							
CONTACT ARRANGEMENT _____							
CONTACT TYPE _____							
ALTERNE INSERT POSITION _____							
MODIFICATION CODE _____							

SERIES PREFIX

KPSE - ITT Cannon prefix
MS - MIL-C-26482 prefix

SHELL STYLE

ITT Cannon Number:
00 - wall mounting receptacle
01 - cable connecting plug
02 - box mounting receptacle (without wire seals)
* 03 - wall mounting receptacle without ferrule and endbell
* 04 - cable connector plug without ferrule and endbell
* 05 - straight plug without ferrule and endbell
06 - straight plug
07 - jam nut receptacle
08 - 90° angle plug

* Consult factory for details

MS Designation

3120 - wall mounting receptacle
3121 - cable connecting plug
3122 - box mounting receptacle
3124 - jam nut receptacle
3126 - straight plug

CLASS

A - general duty (not MS approved)
B - general duty with strain relief without grommet & ferrules (not MS approved)
E - grommet seal (MS specification)
F - grommet seal with strain relief (MS specification)
J - gland seal with strain relief for jacketed cable (not MS approved)
P - potted (MS specification)

SHELL SIZE

10, 12, 14, 16, 18, 20, 22, and 24

CONTACT ARRANGEMENT

See contact arrangements page 149.

CONTACT STYLE

P - pin
S - socket

ALTERNATE INSERT POSITION

W, X, Y and Z. (Omit for normal.)

MODIFICATION CODE

Omit first (0) of shell style indication when using modifications code.
F0 - less contacts, not marked on connectors
07 - clear chromate over cadmium
16 - twist-pull lanyard release coupler (applied cable to plug only).
23 - grounding springs fingers (applicable to plug only)

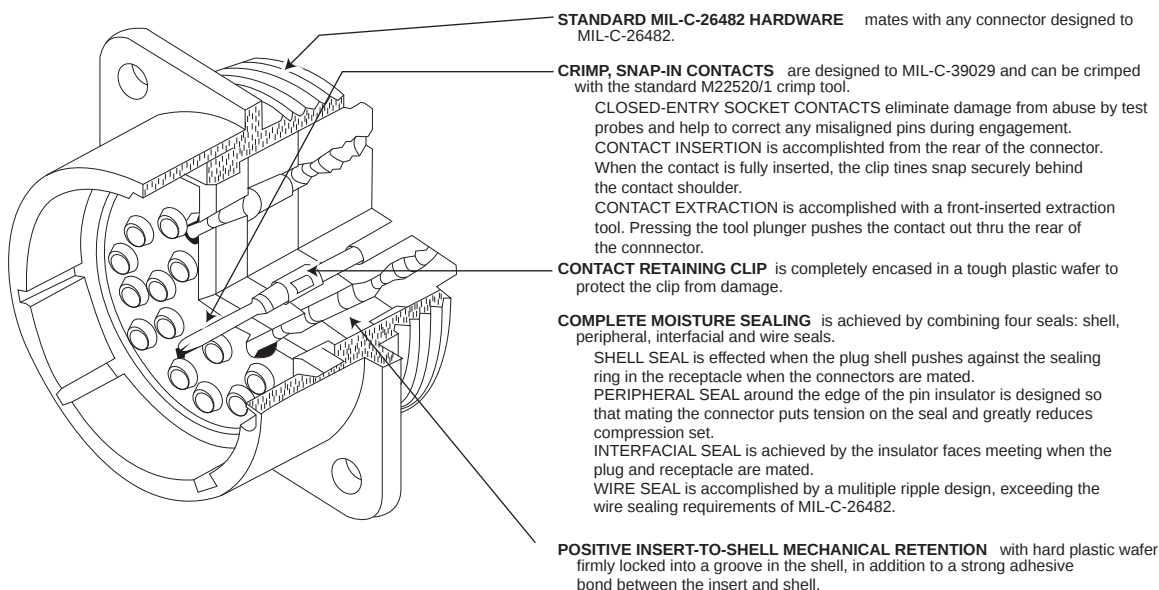
KPSE High Performance Crimp Contact Connectors

- Environment -resistant
- Voidless integrally molded insulator
- Front-release, crimp snap-in contacts
- Closed entry socket contacts
- 4 moisture seals for complete sealing
- Contact clip protected in hard dielectric
- Positive insert-to-shell mechanical retention

KPSE environment-resistant, miniature circular, quick disconnect connectors, qualified to MIL-C-26482, are designed for the exacting requirements of today's electronic industry. The KPSE features an insulator which is mechanically retained in the shell by a positive, hard plastic-to-metal lock retention augmented by a reliable adhesive bond. Complete moisture sealing is achieved by four seal; shell, peripheral, interfacial and wire seals.

Crimp snap-in contacts are retained in clips that are completely encased in a tough hard dielectric wafer, thus protecting the clips tines from damage. Closed-entry socket contacts facilitate positive mating.

The KPSE series is intermateable, intermountable and interchangeable with all MIL-C-26482 connectors, whether crimp or solder type, and is available with many materials, finishes and configurations.



Performance and Material Specifications

STANDARD MATERIALS AND FINISHES

Shell	aluminum alloy, conductive olive drab chromate over cadmium finish per QQ-P-416
Insulator	polychloroprene
Grommet and Seal	polychloroprene
Contacts	Copper alloy, gold plate per MIL-G-45204 type II
Temperature Range	- 55°C to +125°C

MECHANICAL

Shell Sizes	00 - wall mounting receptacle 01 - cable connecting plug 02 - box mounting receptacle 06 - straight plug 07 - jam nut receptacle 08 - 90° angle plug B - thru-bulkhead receptacle (KPT only)
Shell Sizes	KPT 8 thru 24 KPSE 10 thru 24
Polarization/Coupling:	five keyway/three point bayonet
Service Classes	A - general duty B - general duty with strain relief E - grommet seal F - grommet seal with strain relief J - gland nut with strain relief for jacketed cable P - potted

ELECTRICAL

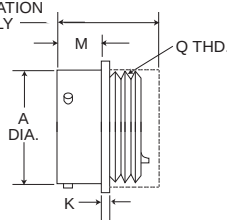
Contact Termination		solder (KPT)		crimp snap-in (KPSE)	
Number of contacts		KPT 2 thru 61		KPSE 3 thru 61	
Wire size, AWG		KPT 12 thru 24		KPSE 16 thru 24	
Wire Range Accommodations		Insulation O.D. Limits			
Contact Size	AWG Wire Size	Min. KPT	Min. KPSE	Max. KPT/ KPSE	
20	24, 22 and 20	.060 (1.52)	.047 (1.19)	.083 (2.11)	
16	20, 18 and 16	.066 (1.68)	.066 (1.68)	.109 (2.77)	
12	14 and 12	.097 (2.46)		.142 (3.61)	
Contact Rating	Contact Size	Rated Amps	Test Current	Millivolt Drop	
	20	7.5	7.5	less than 55	
	16	22.0	13.0	less than 50	
Service Rating	Test Volt	Service	AC(rms)	DC	
	Sea level	1	1500	2100	
		2	2300	3200	
	70,000 ft.	1	375	535	
		2	550	770	
Maximum Operating Voltage	Sea level	1	600	850	
		2	1000	1275	

Wall Mounting Receptacles

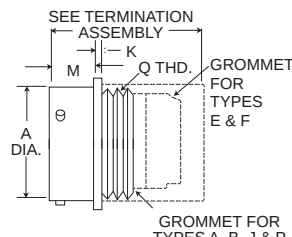
MS3110 (MS service class E, F, J, P)
MS3120 (MS service class E, F, P)

KPT00
KPSE00

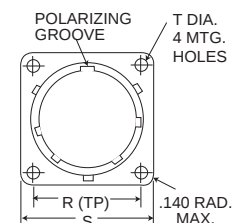
SEE TERMINATION
ASSEMBLY



SOLDER
KPT00/MS3110



CRIMP
KPSE00/MS3120

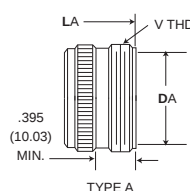


RECEPTACLE ASSEMBLY

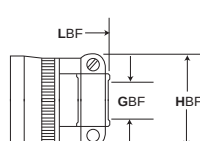
Shell Size	A ± .003 (±.08)	K ± .016 (±.41)	M + .031 (+.79) -.000 (-.00)	R* (TP)	S Max.	T ± .005 (±.13)	Q Thread Class 2A
†8	.471 (11.96)	.062 (1.57)	.431 (10.95)	.594 (15.09)	.828 (21.03)	.120 (3.05)	7/16-28UNEF
10	.588 (14.96)	.062 (1.57)	.431 (10.95)	.719 (18.26)	.954 (24.23)	.120 (3.05)	9/16-24UNEF
12	.748 (19.00)	.062 (1.57)	.431 (10.95)	.812 (20.62)	1.047 (26.59)	.120 (3.05)	11/16-24UNEF
14	.873 (22.17)	.062 (1.57)	.431 (10.95)	.906 (23.01)	1.141 (28.98)	.120 (3.05)	13/16-20UNEF
16	.998 (25.35)	.062 (1.57)	.431 (10.95)	.969 (24.61)	1.234 (31.34)	.120 (3.05)	15/16-20UNEF
18	1.123 (28.52)	.062 (1.57)	.431 (10.95)	1.062 (26.97)	1.328 (33.73)	.120 (3.05)	1-1/16-18UNEF
20	1.248 (31.70)	.094 (2.39)	.556 (14.12)	1.156 (29.36)	1.453 (36.91)	.120 (3.05)	1-3/16-18UNEF
22	1.373 (34.87)	.094 (2.39)	.556 (14.12)	1.250 (31.75)	1.578 (40.08)	.120 (3.05)	1-5/16-18UNEF
24	1.498 (38.05)	.094 (2.39)	.589 (14.96)	1.375 (34.92)	1.703 (43.26)	.147 (3.73)	1-7/16-18UNEF

†Not available in KPSE * (TP) located within .010 T.P. with respect to diameter A and master keyway.

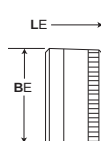
Receptacles with Termination Assemblies



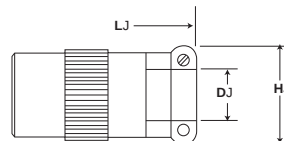
TYPE A



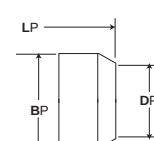
TYPE B AND F



TYPE E



TYPE J



TYPE P

Shell Size	TYPE A			TYPE B and F			TYPE E	
	DA Min.	LA Max.	V Thread Class 2A	GBF Min.	HBF Max.	LBF Max.	BE Max.	LE Max.
†8	.335 (8.15)	1.44 (36.68)	1/2-28UNEF	.115 (2.92)	.828 (21.03)	1.922 (48.82)	.608 (15.44)	1.328 (33.73)
10	.466 (11.84)	1.44 (36.68)	5/8-24UNEF	.178 (4.52)	.891 (22.63)	1.922 (48.82)	.734 (18.64)	1.328 (33.73)
12	.591 (15.01)	1.444 (36.68)	3/4-20UNEF	.302 (7.67)	1.016 (25.81)	1.922 (48.82)	.858 (21.79)	1.328 (33.73)
14	.705 (19.05)	1.444 (36.68)	7/8-20UNEF	.365 (9.27)	1.141 (28.98)	1.922 (48.82)	.984 (24.99)	1.328 (33.73)
16	.830 (21.08)	1.444 (36.68)	1-20UNEF	.490 (12.45)	1.203 (30.56)	2.047 (51.99)	1.110 (28.19)	1.328 (33.73)
18	.948 (24.08)	1.444 (36.68)	1-3/16-18UNEF	.615 (15.62)	1.469 (37.31)	2.078 (52.78)	1.234 (31.34)	1.328 (33.73)
20	1.043 (26.49)	1.728 (43.89)	1-3/16-18UNEF	.615 (15.62)	1.469 (37.31)	2.344 (59.54)	1.360 (34.54)	1.531 (38.89)
22	1.198 (30.43)	1.728 (43.89)	1-7/16-18UNEF	.740 (18.80)	1.656 (42.06)	1.344 (59.54)	1.484 (37.69)	1.531 (38.89)
24	1.293 (32.84)	1.738 (44.15)	1-7/16-18UNEF	.790 (20.07)	1.750 (44.45)	2.406 (61.11)	1.610 (40.89)	1.594 (40.49)

Shell Size	TYPE J			TYPE P		
	DJ Max./Min.	HJ Max.	LJ Max.	BP Max.	DP Min.	LP Max.
†8	.230/.168 (5.84/4.27)	.828 (21.03)	2.271 (57.68)	.608 (15.44)	.317 (8.05)	1.453 (36.91)
10	.312/.205 (7.92/5.21)	.891 (22.63)	2.271 (57.68)	.734 (18.64)	.434 (11.02)	1.453 (36.91)
12	.442/.338 (11.23/8.59)	1.016 (25.81)	2.411 (61.24)	.858 (21.79)	.548 (13.92)	1.453 (36.91)
14	.539/.416 (13.56/10.57)	1.141 (28.98)	2.599 (66.01)	.984 (24.99)	.673 (17.09)	1.453 (36.91)
16	.616/.550 (15.65/13.97)	1.203 (30.56)	2.943 (74.75)	1.110 (28.19)	.798 (20.27)	1.453 (36.91)
18	.672/.600 (17.07/15.24)	1.469 (37.31)	3.172 (80.57)	1.234 (31.34)	.899 (22.83)	1.453 (36.91)
20	.747/.634 (18.97/16.13)	1.469 (37.31)	3.610 (91.69)	1.360 (34.54)	1.024 (26.01)	1.672 (42.47)
22	.846/.670 (21.49/17.02)	1.656 (42.06)	3.766 (95.66)	1.484 (37.69)	1.149 (29.18)	1.672 (42.47)
24	.894/.740 (22.71/18.80)	1.750 (44.45)	3.985 (101.22)	1.610 (40.89)	1.274 (32.36)	1.734 (44.04)

†Not available in KPSE

Performance Specifications - Page 142

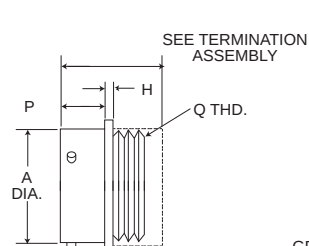
Contacts, Sealing Plugs, Assembly Tools - Page 154

Contact Arrangements - Page 149

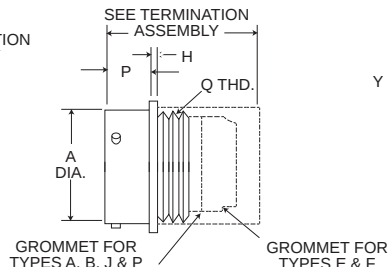
Cable Connecting Plugs

MS3111
(MS service class E, F, J, P)
MS3121
(MS service class E, F, P)

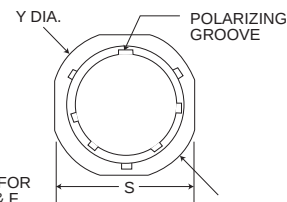
KPT01
KPSE01



SOLDER
KPT01/MS3111



CRIMP
KPSE01/MS3121

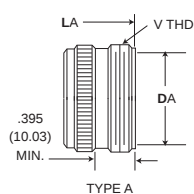


PLUG ASSEMBLY

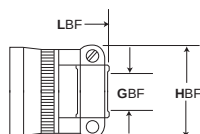
Shell Size	A ± .003 (±.08)	H ± .016 (±.41)	P + .031 (+.79) -.000 (-.00)	S Max.	Y Max.	Q Thread Class 2A
†8	.471 (11.96)	.094 (2.39)	.400 (10.16)	.828 (21.03)	.958 (24.33)	7/16-28UNEF
10	.588 (14.94)	.094 (2.39)	.400 (10.16)	.954 (24.23)	1.082 (27.48)	9/16-24UNEF
12	.748 (19.00)	.094 (2.39)	.400 (10.16)	1.047 (26.59)	1.176 (29.87)	11/16-24UNEF
14	.873 (22.17)	.094 (2.39)	.400 (10.16)	1.141 (28.98)	1.270 (32.26)	13/16-20UNEF
16	.998 (25.35)	.094 (2.39)	.400 (10.16)	1.234 (31.34)	1.364 (34.65)	15/16-20UNEF
18	1.123 (28.52)	.094 (2.39)	.400 (10.16)	1.328 (33.73)	1.458 (37.03)	1-1/16-18UNEF
20	1.248 (31.70)	.115 (2.92)	.535 (13.59)	1.453 (36.91)	1.582 (40.18)	1-3/16-18UNEF
22	1.373 (34.87)	.115 (2.92)	.535 (13.59)	1.578 (40.08)	1.708 (43.38)	1-5/16-18UNEF
24	1.498 (38.05)	.115 (2.92)	.558 (14.43)	1.703 (43.26)	1.832 (46.53)	1-7/16-18UNEF

†Not available in KPSE *(TP) located within .010T.P. with respect to diameters A and master keyway.

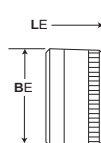
Cable Connecting Plugs With Termination Assemblies



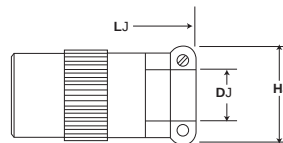
TYPE A



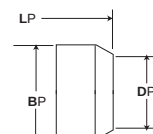
TYPE B AND F



TYPE E



TYPE J



TYPE P

With Termination Assemblies

Shell Size	TYPE A			TYPE B and F			TYPE E	
	DA Min.	LA Max.	V Thread Class 2A	GBF Min.	HBF Max.	LBF Max.	BE Max.	LE Max.
†8	.335 (8.15)	1.44 (36.68)	1/2-28UNEF	.115 (2.92)	.828 (21.03)	1.922 (48.82)	.608 (15.44)	1.328 (33.73)
10	.466 (11.84)	1.44 (36.68)	5/8-24UNEF	.178 (4.52)	.891 (22.63)	1.922 (48.82)	.734 (18.64)	1.328 (33.73)
12	.591 (15.01)	1.44 (36.68)	3/4-20UNEF	.302 (7.67)	1.016 (25.81)	1.922 (48.82)	.858 (21.79)	1.328 (33.73)
14	.705 (19.05)	1.44 (36.68)	7/8-20UNEF	.365 (9.27)	1.141 (28.98)	1.922 (48.82)	.984 (24.99)	1.328 (33.73)
16	.830 (21.08)	1.44 (36.68)	1-20UNEF	.490 (12.45)	1.203 (30.56)	2.047 (51.99)	1.110 (28.19)	1.328 (33.73)
18	.948 (24.08)	1.44 (36.68)	1-3/16-18UNEF	.615 (15.62)	1.469 (37.31)	2.078 (52.78)	1.234 (31.34)	1.328 (33.73)
20	1.043 (26.49)	1.728 (43.89)	1-3/16-18UNEF	.615 (15.62)	1.469 (37.31)	2.344 (59.54)	1.360 (34.54)	1.531 (38.89)
22	1.198 (30.43)	1.728 (43.89)	1-7/16-18UNEF	.740 (18.80)	1.656 (42.06)	1.344 (59.54)	1.484 (37.69)	1.531 (38.89)
24	1.293 (32.84)	1.738 (44.15)	1-7/16-18UNEF	.790 (20.07)	1.750 (44.45)	2.406 (61.11)	1.610 (40.89)	1.594 (40.49)

Shell Size	TYPE J			TYPE P		
	DJ Max./Min.	HJ Max.	LJ Max.	BP Max.	DP Min.	LP Max.
†8	.230/.168 (5.84/4.27)	.828 (21.03)	2.271 (57.68)	.608 (15.44)	.317 (8.05)	1.453 (36.91)
10	.312/.205 (7.92/5.21)	.891 (22.63)	2.271 (57.68)	.734 (18.64)	.434 (11.02)	1.453 (36.91)
12	.442/.338 (11.23/8.59)	1.016 (25.81)	2.411 (61.24)	.858 (21.79)	.548 (13.92)	1.453 (36.91)
14	.539/.416 (13.56/10.57)	1.141 (28.98)	2.599 (66.01)	.984 (24.99)	.673 (17.09)	1.453 (36.91)
16	.616/.550 (15.65/13.97)	1.203 (30.56)	2.943 (74.75)	1.110 (28.19)	.798 (20.27)	1.453 (36.91)
18	.672/.600 (17.07/15.24)	1.469 (37.31)	3.172 (80.57)	1.234 (31.34)	.899 (22.83)	1.453 (36.91)
20	.747/.634 (18.97/16.13)	1.469 (37.31)	3.610 (91.69)	1.360 (34.54)	1.024 (26.01)	1.672 (42.47)
22	.846/.670 (21.49/17.02)	1.656 (42.06)	3.766 (95.66)	1.484 (37.69)	1.149 (29.18)	1.672 (42.47)
24	.894/.740 (22.71/18.80)	1.750 (44.45)	3.985 (101.22)	1.610 (40.89)	1.274 (32.36)	1.734 (44.04)

†Not available in KPSE

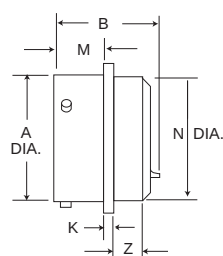
Performance Specifications - Page 142
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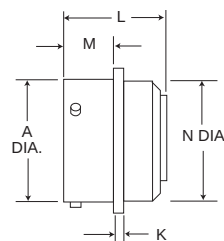
Box Mounting Receptacles

MS3112
(MS service class E)
MS3122
(MS service class E)

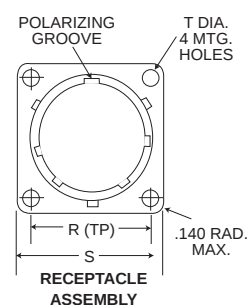
KPT02
KPSE02



SOLDER
KPT02/MS3112



CRIMP
KPSE02/MS3122



Note: Connector does not accommodate backshell.

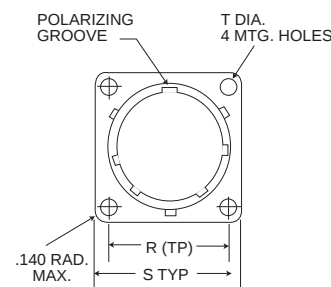
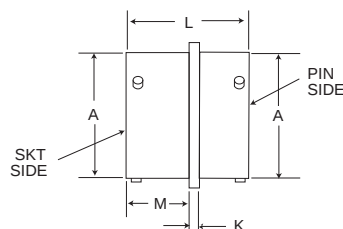
Shell Size	A ± .003 (±.08)	B Max	K ± .016 (±.41)	L Max.	M + .031 (+.79) -.000 (-.00)	N Dia. Max.	R* (TP)	S Max.	T ± .005	Z Max.
†8	.471 (11.96)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.469 (11.91)	.594 (15.09)	.828 (21.03)	.120 (3.05)	.354 (8.99)
10	.588 (14.96)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.593 (15.06)	.719 (18.26)	.954 (24.23)	.120 (3.05)	.354 (8.99)
12	.748 (19.00)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.719 (18.26)	.812 (20.62)	1.047 (26.59)	.120 (3.05)	.354 (8.99)
14	.873 (22.17)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.843 (21.41)	.906 (23.01)	1.141 (28.98)	.120 (3.05)	.354 (8.99)
16	.998 (25.35)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.969 (24.61)	.969 (24.61)	1.234 (31.34)	.120 (3.05)	.354 (8.99)
18	1.123 (28.52)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	1.093 (27.76)	1.062 (26.97)	1.328 (33.73)	.120 (3.05)	.354 (8.99)
20	1.248 (31.70)	1.196 (30.38)	.094 (2.39)	1.367 (34.72)	.556 (14.12)	1.219 (30.96)	1.156 (29.36)	1.453 (36.91)	.120 (3.05)	.417 (10.59)
22	1.373 (34.87)	1.196 (30.38)	.094 (2.39)	1.367 (34.72)	.556 (14.12)	1.343 (34.11)	1.250 (31.75)	1.578 (40.08)	.120 (3.05)	.417 (10.59)
24	1.498 (38.05)	1.196 (30.98)	.094 (2.39)	1.418 (36.02)	.589 (14.96)	1.469 (37.31)	1.375 (34.92)	1.703 (43.26)	.147 (3.73)	.445 (11.30)

†Not available in KPSE *(TP) located within .010T.P. with respect to diameter A and master keyway.

Thru-Bulkhead Receptacles

MS3119
(MS service class E)

KPTB



*(T.P) located within .010 T.P. with respect to diameter A and master keyway.

Shell Size	A Dia. ± .003 (±.08)	K ± .016 (±.406)	L Max.	M + .031 (+.79) -.000 (-.00)	R* (TP)	S Max.	T ± .005 (± .127)
†8	.471 (11.96)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	.594 (15.09)	.828 (21.03)	.120 (3.05)
10	.588 (14.94)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	.719 (18.26)	.954 (24.23)	.120 (3.05)
12	.748 (18.00)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	.812 (20.62)	1.047 (26.59)	.120 (3.05)
14	.873 (22.17)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	.906 (23.01)	1.141 (28.98)	.120 (3.05)
16	.998 (25.35)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	.969 (24.61)	1.234 (31.34)	.120 (3.05)
18	1.123 (28.52)	.062 (1.57)	1.125 (28.58)	.562 (14.27)	1.062 (26.97)	1.328 (33.73)	.120 (3.05)
20	1.248 (31.70)	.094 (2.39)	1.406 (35.71)	.688 (17.48)	1.156 (29.36)	1.453 (36.91)	.120 (3.05)
22	1.373 (34.87)	.094 (2.39)	1.406 (35.71)	.688 (17.48)	1.250 (31.76)	1.578 (40.08)	.120 (3.05)
24	1.498 (38.05)	.094 (2.39)	1.406 (35.71)	.688 (17.48)	1.375 (34.92)	1.703 (43.26)	.147 (3.73)

Performance Specifications - Page 142

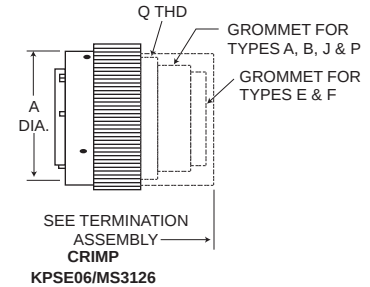
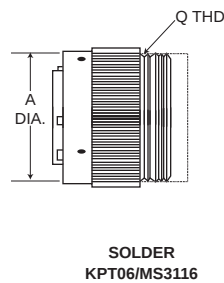
Contacts, Sealing Plugs, Assembly Tools - Page 154

Contact Arrangements - Page 149

Straight Plugs

MS3116
(MS service class E, F, J, P)
MS3126
(MS service class E, F, P)

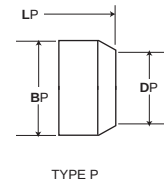
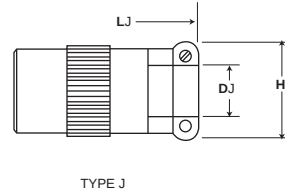
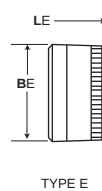
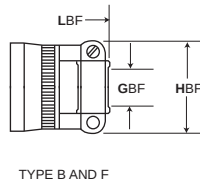
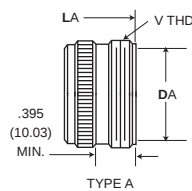
KPT06
KPSE06



Shell Size	A dia. Max.	G Max.	J - .010 (+0.25)	Q Thread Class 2A
†8	.765 (19.43)	.782 (19.86)	.353 (8.99)	7/16-28UNEF
10	.840 (21.34)	.926 (23.52)	.353 (8.99)	9/16-24UNEF
12	.999 (25.38)	1.043 (26.49)	.353 (8.99)	11/16-24UNEF
14	1.139 (28.93)	1.183 (30.05)	.353 (8.99)	13/16-20UNEF
16	1.261 (32.03)	1.305 (33.15)	.353 (8.99)	15/16-20UNEF
18	1.337 (33.96)	1.391 (35.33)	.353 (8.99)	1-1/16-18UNEF
20	1.477 (37.52)	1.531 (38.89)	.415 (10.54)	1-3/16-18UNEF
22	1.602 (40.69)	1.656 (42.06)	.415 (10.54)	1-5/16-18UNEF
24	1.723 (43.76)	1.77 (45.14)	.415 (10.54)	1-7/16-18UNEF

†Not available in KPSE

Straight Plugs With Termination Assemblies



Shell Size	TYPE A			TYPE B and F			TYPE E	
	LA Max.	DA Min.	V Thread Class 2A	LBF Max.	HBF Max.	GBF Min.	BE Max.	LE Max.
†8	1.440 (36.58)	.335 (8.51)	1/2-28UNEF	1.906 (48.41)	.828 (21.03)	.115 (2.02)	.608 (15.44)	1.328 (33.73)
10	1.440 (36.58)	.466 (11.84)	5/8-24UNEF	1.906 (48.41)	.891 (22.63)	.178 (4.52)	.734 (18.64)	1.328 (33.73)
12	1.440 (36.58)	.591 (15.01)	3/4-20UNEF	1.906 (48.41)	1.016 (25.81)	.302 (7.67)	.858 (21.79)	1.328 (33.73)
14	1.440 (36.58)	.705 (19.05)	7/8-20UNEF	1.906 (48.41)	1.141 (28.98)	.365 (9.27)	.984 (24.99)	1.328 (33.73)
16	1.440 (36.58)	.830 (21.08)	1-20UNEF	2.047 (51.99)	1.203 (30.56)	.490 (12.45)	1.110 (28.19)	1.328 (33.73)
18	1.662 (42.21)	.948 (24.08)	1-3/16-18UNEF	2.078 (52.78)	1.469 (37.31)	.615 (15.62)	1.234 (31.34)	1.328 (33.73)
20	1.662 (42.21)	1.043 (26.49)	1-3/16-18UNEF	2.250 (57.15)	1.469 (37.31)	.615 (15.62)	1.360 (34.54)	1.453 (36.91)
22	1.662 (42.21)	1.198 (30.43)	1-7/16-18UNEF	2.250 (57.15)	1.656 (42.06)	.740 (18.80)	1.484 (37.69)	1.453 (36.91)
24	1.672 (42.47)	1.293 (32.84)	1-7/16-18UNEF	2.312 (58.72)	1.750 (44.45)	.790 (20.07)	1.610 (40.89)	1.510 (38.54)

Shell Size	TYPE J			TYPE P		
	LJ Max.	HJ Max.	DJ Max./Min.	LP Max.	DP Min.	BP Max.
†8	2.271 (57.68)	.828 (21.03)	.230/.168 (5.84/4.27)	1.500 (38.10)	.317 (8.05)	.608 (15.44)
10	2.271 (57.68)	.891 (22.63)	.312/.205 (7.92/5.21)	1.500 (38.10)	.434 (11.02)	.734 (18.64)
12	2.411 (61.24)	1.016 (25.81)	.442/.338 (11.23/8.59)	1.500 (38.10)	.548 (13.92)	.858 (21.79)
14	2.599 (66.01)	1.141 (28.98)	.539/.416 (13.56/10.57)	1.500 (38.10)	.673 (17.09)	.984 (24.99)
16	2.943 (74.75)	1.203 (30.56)	.616/.550 (15.65/13.97)	1.500 (38.10)	.798 (20.27)	1.110 (28.19)
18	3.172 (80.57)	1.469 (37.31)	.672/.600 (17.07/15.24)	1.500 (38.10)	.899 (22.83)	1.234 (31.34)
20	3.610 (91.69)	1.469 (37.31)	.747/.634 (18.97/16.13)	1.609 (40.87)	1.024 (26.01)	1.360 (34.54)
22	3.766 (95.66)	1.656 (42.06)	.846/.670 (21.49/17.02)	1.609 (40.87)	1.149 (29.18)	1.484 (37.69)
24	3.985 (101.22)	1.750 (44.45)	.894/.740 (22.71/18.80)	1.687 (42.85)	1.274 (32.36)	1.610 (40.89)

†Not available in KPSE

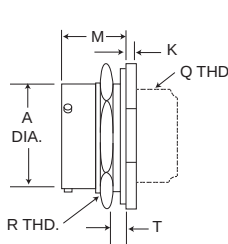
Performance Specifications - Page 142
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Contact Arrangements - Page 149

Jam Nut Receptacles

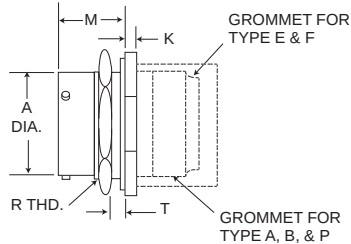
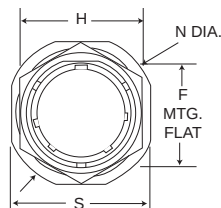
MS3114
(MS service class E, F, P)
MS3124
(MS service class E, F, P)

KPT07

KPSE07



SOLDER
KPT07/MS3114

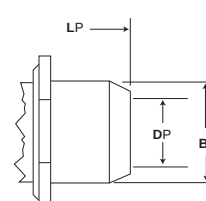
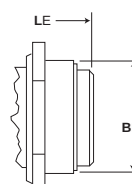
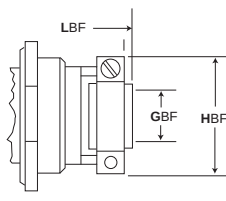
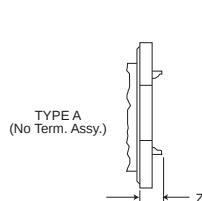


CRIMP
KPSE07/MS3124

Shell Size	A ±.003 (±0.08)	A ±.005 (0.130)	H ±.017 (±0.43)	K ±.020 (±.05)	M +.031 (+.08) -.000 (-.00)	N Max.	S Max.	T Panel Thickness Min. Max.	R thread Class 2A
†8	.471 (11.96)	.525 (13.34)	.750 (19.05)	.117 (2.97)	.691 (17.55)	1.078 (27.38)	.954 (24.23)	.062 (1.57) .125 (3.17)	9/16-24UNEF
10	.588 (14.93)	.650 (16.51)	.875 (22.22)	.117 (2.97)	.691 (17.55)	1.206 (30.56)	1.078 (27.38)	.062 (1.57) .125 (3.17)	11/16-24UNEF
12	.748 (19.00)	.813 (20.65)	1.062 (26.97)	.117 (2.97)	.691 (17.55)	1.319 (35.33)	1.266 (32.16)	.062 (1.57) .125 (3.17)	7/8-20UNEF
14	.873 (22.17)	.937 (23.80)	1.188 (30.17)	.117 (2.97)	.691 (17.55)	1.516 (38.51)	1.391 (35.33)	.062 (1.57) .125 (3.17)	1-20UNEF
16	.988 (25.35)	1.061 (26.95)	1.312 (33.32)	.117 (2.97)	.691 (17.55)	1.641 (41.68)	1.516 (38.51)	.062 (1.57) .125 (3.17)	1-1/8-18UNEF
18	1.123 (28.52)	1.186 (30.12)	1.438 (36.25)	.117 (2.97)	.691 (17.55)	1.766 (44.86)	1.41 (41.68)	.062 (1.57) .125 (3.17)	1-1/4-18UNEF
20	1.248 (31.70)	1.311 (33.30)	1.562 (39.67)	.148 (3.76)	.879 (22.33)	1.954 (49.63)	1.828 (46.43)	.062 (1.57) .250 (6.35)	1-3/8-18UNEF
22	1.373 (34.87)	1.436 (36.47)	1.688 (42.87)	.148 (3.76)	.879 (22.33)	2.078 (52.78)	1.954 (49.63)	.062 (1.57) .250 (6.35)	1-1/2-18UNEF
24	1.498 (38.05)	1.561 (39.65)	1.812 (46.02)	.148 (3.76)	.912 (23.16)	2.203 (55.96)	2.078 (52.78)	.062 (1.57) .250 (6.35)	1-5/8-18UNEF

†Not available in KPSE

Jam Nut Receptacles With Termination Assemblies



Shell Size	TYPE A	TYPE B AND F			TYPE E		TYPE P		
	Z Max.	HBF Max.	GBF Min.	LBF Max.	BE Max.	LE Max.	BP Max.	DP Min.	LP Max.
†8	.312 (7.92)	.828 (21.03)	.115 (2.02)	1.906 (48.41)	.608 (15.44)	1.344 (34.14)	.608 (15.44)	.317 (8.05)	1.391 (35.33)
10	.312 (7.92)	.891 (22.63)	.178 (4.52)	1.906 (48.41)	.734 (18.64)	1.344 (34.14)	.734 (18.64)	.434 (11.02)	1.391 (35.33)
12	.312 (7.92)	1.016 (25.81)	.302 (7.67)	1.906 (48.41)	.858 (21.79)	1.344 (34.14)	.858 (21.79)	.548 (13.92)	1.391 (35.33)
14	.312 (7.92)	1.141 (28.98)	.365 (9.27)	1.906 (48.41)	.984 (24.99)	1.344 (34.14)	.984 (24.99)	.673 (17.09)	1.391 (35.33)
16	.312 (7.92)	1.203 (30.56)	.490 (12.45)	2.047 (51.99)	1.110 (28.19)	1.344 (34.14)	1.110 (28.19)	.798 (20.27)	1.391 (35.33)
18	.312 (7.92)	1.469 (37.31)	.615 (15.62)	2.078 (52.78)	1.234 (31.34)	1.344 (34.14)	1.234 (31.34)	.899 (22.83)	1.391 (35.33)
20	1.93 (4.90)	1.469 (37.31)	.615 (15.62)	2.328 (59.13)	1.360 (34.54)	1.594 (40.49)	1.360 (34.54)	1.024 (26.01)	1.641 (41.68)
22	1.93 (4.90)	1.656 (42.06)	.740 (18.80)	2.328 (59.13)	1.484 (37.69)	1.594 (40.49)	1.484 (37.69)	1.149 (29.18)	1.641 (41.68)
24	.150 (3.81)	1.750 (44.45)	.790 (20.07)	2.453 (62.31)	1.610 (40.89)	1.641 (41.68)	1.610 (40.89)	1.274 (32.36)	1.703 (43.26)

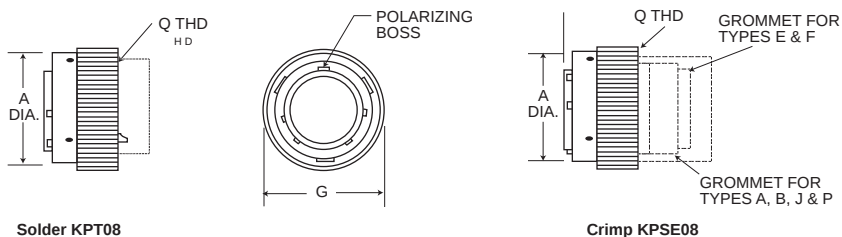
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Contacts, Sealing Plugs, Assembly Tools - Page 154

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Right Angle Plugs

KPT08/KPSE08

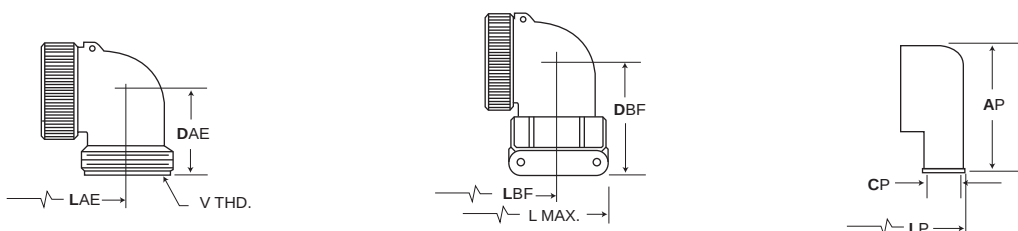


Shell Size	KPT/KPSE		Q Thread Class 2A
	A Dia. Max.	G Max.	
†8	.765 (19.43)	.782 (19.86)	7/16-28UNEF
10	.840 (21.34)	.926 (23.52)	9/16-24UNEF
12	.999 (25.38)	1.043 (26.49)	11/16-24UNEF
14	1.139 (28.93)	1.183 (30.05)	13/16-20UNEF
16	1.261 (32.03)	1.305 (33.15)	15/16-20UNEF
18	1.337 (33.96)	1.391 (35.33)	1-1/16-18UNEF
20	1.477 (37.52)	1.531 (38.89)	1-3/16-18UNEF
22	1.602 (40.69)	1.656 (42.09)	1-5/16-18UNEF
24	1.723 (43.76)	1.777 (45.13)	1-7/16-18UNEF

†Not available in KPSE.

NOTE: for size 10 and 24 consult factory for availability in type A, B, E and F,
For size 8 consult factory for availability in Type P.

Right Angle Plugs With Termination Assemblies



Shell Size	TYPE A AND E			TYPE B AND F				TYPE P			
	LAE Max.	DAE Max.	V Thread Class 2A	DBF Max.	LBF Max.	L Max.	V Thread Class 2A	AP Max.	LP Max.	CP Min.	V Thread Class 2A
†8	1.421 (36.09)	.822 (20.88)	1/2-28UNEF	1.238 (31.44)	1.421 (36.09)	1.842 (46.79)	1/2-28UNEF	-(-)	-(-)	-(-)	1/2-28UNEF
10	1.484 (37.69)	.853 (21.67)	5/8-28UNEF	1.269 (32.24)	1.484 (37.69)	1.937 (49.20)	5/8-28UNEF	1.030 (26.16)	1.380 (35.05)	.252 (6.40)	5/8-28UNEF
12	1.546 (39.27)	.916 (23.27)	3/4-20UNEF	1.395 (35.43)	1.546 (39.27)	1.937 (49.20)	3/4-20UNEF	1.030 (26.16)	1.567 (39.80)	.252 (6.40)	3/4-20UNEF
14	1.577 (40.05)	.978 (24.84)	7/8-20UNEF	1.519 (38.58)	1.577 (40.05)	2.124 (53.95)	7/8-20UNEF	1.030 (26.16)	1.567 (39.80)	.283 (7.19)	7/8-20UNEF
16	1.609 (40.87)	1.041 (26.44)	1-20UNEF	1.582 (40.18)	1.609 (40.87)	2.203 (55.96)	1-20UNEF	1.280 (32.51)	1.567 (39.80)	.355 (9.02)	1-20UNEF
18	1.734 (44.04)	1.103 (28.70)	1-3/16-18UNEF	1.644 (41.76)	1.734 (44.04)	2.380 (60.45)	1-3/16-18UNEF	1.280 (32.51)	1.755 (44.58)	.530 (13.46)	1-3/16-18UNEF
20	1.879 (47.73)	1.166 (29.62)	1-5/16-18UNEF	1.707 (43.36)	1.879 (47.73)	2.629 (66.78)	1-5/16-18UNEF	1.530 (38.86)	1.782 (45.26)	.562 (14.27)	1-5/16-18UNEF
22	2.035 (51.69)	1.245 (31.62)	1-7/16-18UNEF	1.884 (47.85)	2.035 (51.69)	2.629 (66.78)	1-7/16-18UNEF	1.530 (38.86)	1.782 (45.26)	.562 (14.27)	1-7/16-18UNEF
24	2.035 (51.69)	1.322 (33.58)	1-7/16-18UNEF	1.963 (49.86)	2.035 (51.69)	2.895 (73.53)	1-7/16-18UNEF	1.780 (45.21)	2.087 (53.01)	.610 (15.49)	1-7/16-18UNEF

†Not available in KPSE. NOTE: For size 10 and 24 consult factory for availability in type A, B, E and F, For size 8 consult factory for availability in Type P.

Performance Specifications - Page 142

Contacts, Sealing Plugs, Assembly Tools - Page 154

Contact Arrangements - Page 149

Contact Arrangements

LEGEND

- ▲ KPT
- ◆ KPSE
- △ Authorized per MIL-C-26482 (NAVY)
- Not MS approved ITTC proprietary

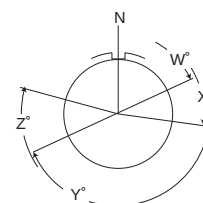
Drawing not to scale; face view of pin insert shown (socket view is opposite)

		Shell Size 8			
Shell Size	No. of Contacts				
Service Rating					
		Shell Size 10		Shell Size 12	
Shell Size	No. of Contacts				
Service Rating					
		Shell Size 14		Shell Size 16	
Shell Size	No. of Contacts				
Service Rating					
		Shell Size 18		Shell Size 20	
Shell Size	No. of Contacts				
Service Rating					
		Shell Size 22		Shell Size 24	
Shell Size	No. of Contacts				
Service Rating					

(See page 150 for Alternate Insert Positions.)

Alternate Insert Positions

Face view of pin inserts



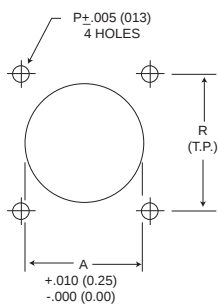
The five positions (W, X, Y, Z and Normal) differ in degree of rotation for various sizes and arrangements.

NO. OF CONTACTS	SHELL SIZE	ARR. NO.	W	Degrees of Rotation		
				X	Y	Z
2	8	8-2	58	122	-	-
3	8	8-3	60	210	-	-
	8	8-33	90	-	-	-
4	12	12-3	-	-	180	-
	8	8-4	45	-	-	-
5	14	14-5	40	92	184	273
6	10	10-6	90	-	-	-
	10	10-98	90	180	240	270
8	12	12-8	90	112	203	292
	16	16-8	54	152	180	331
10	12	12-10	60	155	270	295
11	18	18-11	62	119	241	340
12	14	14-12	43	90	-	-
15	14	14-15	17	110	155	234
16	20	20-16	238	318	333	347
18	14	14-18	15	90	180	270
19	14	14-19	30	165	315	-
21	22	22-21	16	135	175	349
23	16	16-23	158	270	-	-
	16	16-99	66	156	223	340
24	20	20-24	70	145	215	290
26	16	16-26	60	-	275	338
28	18	18A28	-	-	-	-
30	18	18-30	180	193	285	350
32	18	18-32	85	138	222	265
	22	22-32	72	145	215	288
34	22	22-34	62	142	218	298
36	22	22-36	72	144	216	288
39	20	20-39	63	144	252	333
41	20	20-41	45	126	225	-
	22	22-41	39	135	264	-
55	22	22-55	30	142	226	314
57	24	24A57	90	180	270	324
61	24	24-61	90	180	270	324

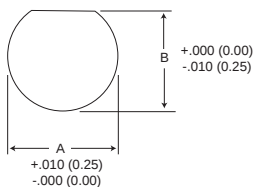
Numbers in bold face indicate contact arrangements are not to MIL-C-26482.

Panel Cutouts

Box and Wall Mounting Receptacle



Jam Nut Receptacle



Shell Size	FLANGE (FRONT MOUNTING) KPT/KPSE		MOUNTING HOLE DIA. KPT/KPSE	
	A Dia.	R	P ± .005	Screw
†8	.618 (15.70)	.594 (15.09)	.125 (3.17)	#4
10	.735 (18.67)	.719 (18.26)	.125 (3.17)	#4
12	.859 (21.82)	.812 (20.62)	.125 (3.17)	#4
14	.985 (25.02)	.906 (23.01)	.125 (3.17)	#4
16	1.113 (28.27)	.969 (24.61)	.125 (3.17)	#4
18	1.235 (31.37)	1.062 (26.97)	.125 (3.17)	#4
20	1.361 (34.57)	1.156 (29.36)	.125 (3.17)	#4
22	1.485 (37.72)	1.250 (31.75)	.125 (3.17)	#4
24	1.611 (40.92)	1.375 (34.92)	.155 (3.94)	#6

†Not Available in KPSE connectors.

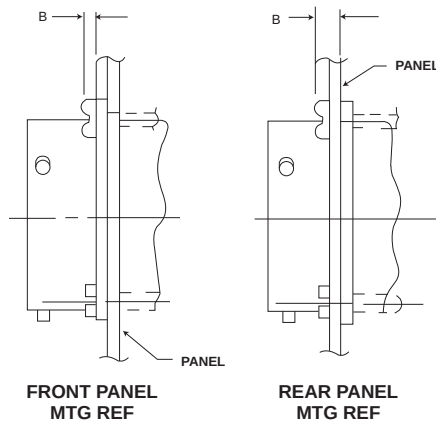
Shell Size	KPT/KPSE	
	A	B
†8	.578 (14.68)	.540 (13.72)
10	.703 (17.86)	.665 (16.89)
12	.890 (22.61)	.828 (21.02)
14	1.015 (25.78)	.952 (24.18)
16	1.140 (28.96)	1.076 (27.33)
18	1.265 (32.13)	1.201 (30.51)
20	1.390 (35.31)	1.326 (33.68)
22	1.515 (38.48)	1.451 (36.86)
24	1.640 (41.66)	1.576 (40.03)

†Not Available in KPSE connectors.

Panel Thickness

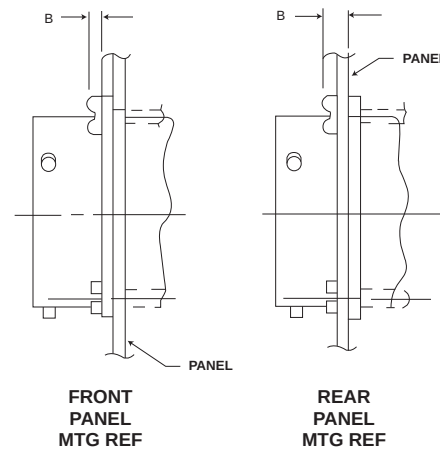
Maximum panel thickness dimensions allowable to ensure complete connector operation for the Wall Mounting Receptacle, Box Mounting Receptacle, and Thru-Bulkhead Receptacle.

Wall Mounting and Box Mounting Receptacle



Size	B Max
8	.087 (2.21)
10	
12	
14	
16	
18	.212 (5.38)
20	
22	
24	

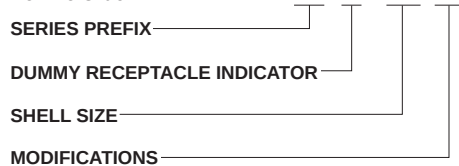
Thru-Bulkhead Receptacle



Size	B Max panel and screw head
8	.218 (5.54)
10	
12	
14	
16	
18	.334 (8.74)
20	
22	
24	

Dummy Receptacles

How To Order



SERIES PREFIX

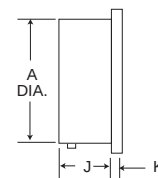
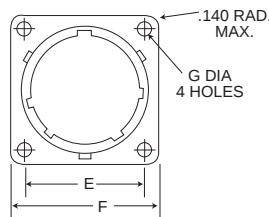
KPT - ITT Cannon Prefix

SHELL SIZE

8 thru 24

MODIFICATIONS

None - Olive drab chromate over cadmium

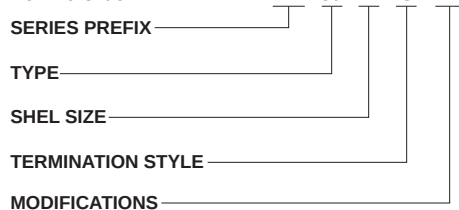


NOTE: For MS Version and additional finishes see PV catalog.

Shell Size	A ± .003 (.08)	E Basic	F Max.	G ± .005 (.13)	J +.031 (.79) -.000 (.00)	K ± .016 (.41)
8	.471 (11.96)	.594 (15.09)	.828 (21.03)	.120 (3.05)	.412 (10.46)	.062 (1.57)
10	.588 (14.94)	.719 (18.26)	.954 (24.23)	.120 (3.05)	.412 (10.46)	.062 (1.57)
12	.748 (19.00)	.812 (20.62)	1.047 (26.60)	.120 (3.05)	.412 (10.46)	.062 (1.57)
14	.873 (22.17)	.906 (23.01)	1.141 (28.98)	.120 (3.05)	.412 (10.46)	.062 (1.57)
16	.998 (25.35)	.969 (24.61)	1.234 (31.34)	.120 (3.05)	.412 (10.46)	.062 (1.57)
18	1.123 (28.52)	1.157 (29.37)	1.328 (33.73)	.120 (3.05)	.462 (11.73)	.062 (1.57)
20	1.248 (31.70)	1.156 (29.36)	1.453 (36.91)	.120 (3.05)	.556 (14.12)	.094 (2.39)
22	1.373 (34.87)	1.250 (31.75)	1.578 (40.08)	.120 (3.05)	.556 (14.12)	.094 (2.39)
24	1.498 (38.05)	1.375 (34.93)	1.703 (43.26)	.147 (3.73)	.589 (14.96)	.094 (2.39)

Protective Metal Caps (Cannon Codes) For MS version and additional finishes see next page

How To Order



SERIES PREFIX

KPT - ITT Cannon Prefix

TYPE

80 - Plug Cap

81 - Receptacle Cap

SHELL SIZE

8 thru 24

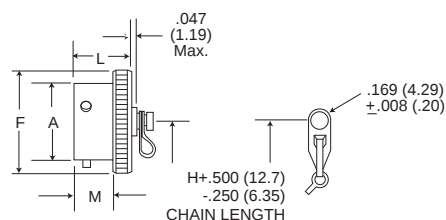
TERMINATION STYLE

C - Sash Chain

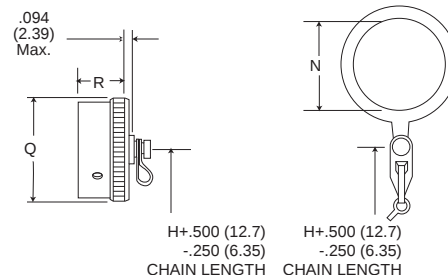
N - Sash Chain with Ring (81 type only)

NOTE: For MS version and additional finishes see below.
(N Style use Primarily for Jam Nut Receptacle)

80 - cap for plugs



81 - cap for receptacle



Shell Size	A ± .003 (.08)	F Max.	H	L Max.	M +.031 (.79) -.000 (.00)	N Min.	Q Max.	R Max.
8	.471 (11.96)	.719 (18.26)	3.000 (76.20)	.562 (14.27)	.368 (9.35)	.578 (14.68)	.734 (18.64)	.562 (14.27)
10	.588 (14.94)	.844 (21.44)	3.000 (76.20)	.562 (14.27)	.368 (9.35)	.703 (17.86)	.859 (21.82)	.562 (14.27)
12	.748 (19.00)	1.000 (25.40)	3.500 (88.90)	.562 (14.27)	.368 (9.35)	.891 (22.63)	1.000 (24.40)	.562 (14.27)
14	.873 (22.17)	1.125 (28.58)	3.500 (88.90)	.562 (14.27)	.368 (9.35)	1.016 (25.81)	1.125 (28.58)	.562 (14.27)
16	.998 (25.35)	1.250 (31.75)	3.500 (88.90)	.562 (14.27)	.368 (9.35)	1.141 (28.98)	1.250 (31.75)	.562 (14.27)
18	1.123 (28.52)	1.375 (34.93)	3.500 (88.90)	.562 (14.27)	.368 (9.35)	1.266 (32.16)	1.375 (34.93)	.562 (14.27)
20	1.248 (31.70)	1.500 (38.10)	4.000 (101.60)	.625 (15.88)	.430 (10.92)	1.391 (35.33)	1.500 (38.10)	.562 (14.27)
22	1.373 (34.87)	1.625 (41.26)	4.000 (101.60)	.625 (15.88)	.430 (10.92)	1.516 (38.51)	1.625 (41.26)	.562 (14.27)
24	1.498 (38.05)	1.750 (44.45)	4.000 (101.60)	.658 (16.71)	.463 (11.76)	1.641 (41.68)	1.750 (44.45)	.602 (15.29)

MATERIALS AND FINISHES

KPT	
Protective Cap	aluminum alloy, olive drab finish per QQ-P-416
Sash Chain	stainless steel
Ring/Rivet	stainless steel
Gasket	polychloroprene

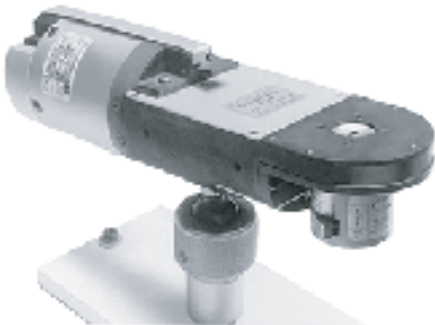
MIL-C-26482 Specifications

The following excerpts are some of the parameter requirements of the MIL-C-26482 specification.

Test Description	Paragraph Reference	Requirements
Contact Retention	4.6.32.1	After preloading to 3 pounds maximum, the force shall be applied at a rate of approximately 1 pound per second and maintained at full load for 5-10 seconds. No damage to contacts or insert shall result nor shall the contacts be dislocated from their normal position in the connector more than 0.012 inch under giveload for KPSE and within 1 minute after the load is removed for KPT.
		Contact Size201612
		Load in Pounds Min.152525
Contact Insertion/Extraction (KPSE only)	4.6.11	When using the proper insertion and extraction tools the forces required to insert or extract the contact shall not exceed 20 lbs. Connectors shall be less endbell.
Coupling Torque	4.6.3	For qualification testing, mating halves shall be coupled and uncoupled, measuring the torques necessary. The torques required to couple and uncouple mating connectors halves shall fall within the limits specified as follows:

Tooling, Crimp

M22520/1-01 CRIMP TOOL
M22520/1-02 Turret



CBT-520/530

Tooling, Insertion/Extraction



KPSE Insertion

Contact Size	
20	MS24256A20
16	MS24256A16



KPSE Extraction

Contact Size	
20	MS24256R20
16	MS24256R16

Contacts

Contact Size/Type	Military Part Number	Color Bands			ITT Cannon Part Number
		1st	2nd	3rd	
20 Socket	M39029/32-259	Red	Green	White	031-9074-002
20 Pin	M39029/31-240	Red	Yellow	Black	030-9036-000
16 Socket	M39029/32-247	Red	Yellow	Violet	031-9095-003
16 Pin	M39029/31-228	Red	Red	Grey	030-9032-003

#20

Contacts for printed circuit applicaitons also available

Wire Hole Fillers/Grommets Sealing Plugs

Contact Size	Part Number		Color Code
	Cannon	Military	
20	225-1012-000	MS3187A20	Red
16	225-1011-000	MS3187-16	Blue

KPSE Assembly Instructions

Contact Size	Wire Size AWG	Strip Insulation
20	#20-#24	3/16"
16	#16-#20	1/4"

Right

Wrong



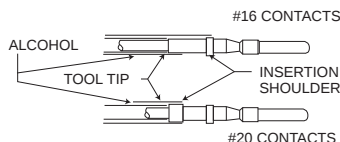
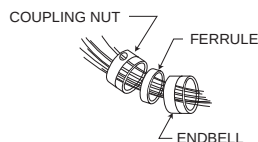
CRIMPING CONTACTS

1. Strip wires according to the table above taking care not to cut or nick strands.

2. Insert stripped wire into contact crimp pot. Wire must be visible thru inspection hole.

3. Using correct crimp tool and locator select proper crimp setting for wire size to be crimped; cycle the tool once to be sure the indentors are open. Insert contact and wire into locator. Squeeze tool handles firmly and completely to insure a proper crimp. The tool will not release unless the crimp indentors in the tool head have been fully actuated. Release crimped contact and wire from tool. Be certain the wire is visible thru inspection hole in contact.

CAUTION: Check that none of the contacts are bent or damaged in any way after crimping.



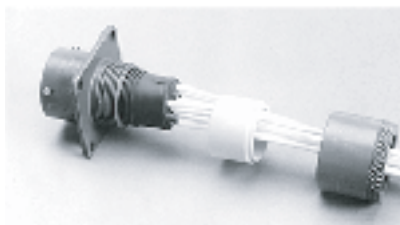
CONTACT INSERTION

1. Remove hardware from plug and receptacle. Slide hardware over wire bundle in proper order for reassembly.

2. Use the proper contact insertion tool and slide the tool over the terminal end of the contact. The size 16 contact lies in the tool and the tool tip butts against the contact shoulder. The rear, or insulation support of the size 20 contact butts against an internal shoulder in the tool tip.

NOTE: Apply a small amount of isopropyl alcohol to the insertion tool tip while installing contacts.

3. Beginning from center cavity and working outwards in a circular pattern, insert wired contacts into rear of connector by hand until the front of the contact shoulder is no more than 1/8" from the grommet. Holding the connector horizontally, position tool behind contact. Push tool straight into contact cavity until contact snaps into position. A light pull on wire will assure that contact is locked securely. Repeat for remaining contacts.



Size	Torque in/lbs.
8,10,12 and 14	10-15
16 and 18	15-25
20,22 and 24	25-35

4. Use contacts and grommet sealing plugs to fill any empty cavities.

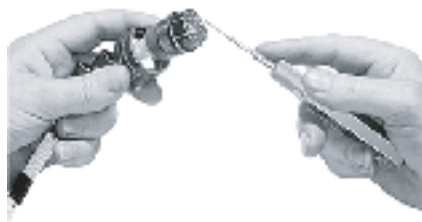
COMPLETION

1. Check face of plug or receptacle for proper contact installation.

2. Using mating connector with contacts installed, mate both connector halves together.

3. Assemble ferrule over the grommet by hand as far as possible.

4. Assemble endbell over ferrule and loosely tighten endbell. Partially loosen (1/4 turn) and retighten to recommended torque limits.



2nd Index Line
Socket Contacts

1st Index Line
Pin Contacts



CONTACT EXTRACTION

1. Slide hardware back over wire bundle. Using proper extraction tool or extraction end of proper insertion/extraction tool, proceed as follows:

KPSE: There are two lines on the clip sleeve which are vital to the contact removal process. The first index line is used for removing pin contacts while the second index line is for removing socket contacts.

Carefully place the tool tip over the contact to be extracted until the tool tip touches the insulator face. Carefully rotate the tool until the index line is slightly below the insulator face. Keep an even pressure against tool body; push plunger forward with thumb and index finger, and push the contact out through the clip. Carefully remove extraction tool from connector. Pull wire by hand to complete the removal of the contact.

How to Order - Special Termination Connectors



PREFIX _____

SHELL STYLE _____

DASH (No Class required, less rear termination) _____

SHELL SIZE _____

CONTACT ARRANGEMENT _____

CONTACT TYPE _____

 P - PIN

 S - Socket

ALTERNATE INSERT POSITION _____

KPT	03	-	18	-	32	P	W
KPT	04	-	18	-	32	P	W
KPT	05	-	18	-	32	P	W
KPSE	03	-	18	-	32	P	W
KPSE	04	-	18	-	32	P	W
KPSE	05	-	18	-	32	P	W

Contact ITT Cannon for additional Information

Solder Type KPT03/04/05-Supplied less endbell, ferrule and grommet.

KPT03

KPT04



KPT05



Solder Type KPSE03/04/05-Supplied less endbell, ferrule.

KPSE03



KPSE04

KPSE05



Twist Pull Lanyard Release Coupler Plug

KPT06/KPSE06



PREFIX _____

SHELL STYLE _____

SERVICE TYPE _____

SHELL SIZE _____

CONTACT ARRANGEMENT _____

CONTACT TYPE _____

POLARIZATION _____

MODIFICATION CODE* _____

KPT	6	A	22	-	55	P	W	16
KPSE	6	E	22	-	55	S	Z	16

*Omit (0) of shell style indication when using this modification code.
16 = Overall length of connector including lanyard to be 6.0 (152.40) ± .125 (3.18) when measured over a 1.0 (25.40) ± .005 (0.13) diameter mandrel.

Printed Circuit Termination

KPT02E

KPT07

