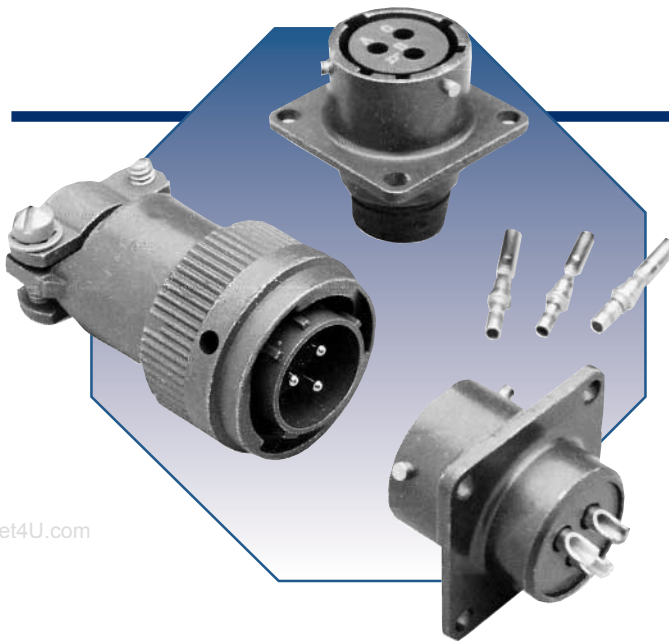


KPT/KPSE

MIL-C-26482 Series 1



KPT & KPSE MIL-C-26482 Series I connectors offer high density contact arrangements in a miniature circular metal shell. The connector is environmentally sealed and comes in two versions: a solder contact version (KPT) and a high performance crimp contact version (KPSE). Both conform to MIL-C-26482 and are intermateable, intermountable, and interchangeable with all MIL-C-26482 connectors, whether solder or crimp style is used. Both styles use a quick disconnect bayonet coupling for rapid positive mating and unmating of the connector. Both types meet all requirements of MIL-C-26482.

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Applications

Military and Industrial environments requiring a miniature, high density, environmental connector.

- Power generators
- Engines
- Sensors
- Motion Control
- Off-road vehicles
- Earth moving equipment
- Ships
- Mobile equipment
- Industrial machinery
- Telecommunications

Features

Rugged shell

Aluminum alloy shell and hardware create a rugged connector with minimal weight. These connectors have been used extensively in commercial, military, and aerospace environments. Standard shells accept all MIL-C-26482 accessories.

Environmentally Sealed

Complete moisture sealing is achieved by combining four seals: shell, peripheral, interfacial, and wire. Wire Seal is accomplished by multiple ripple design, exceeding the wire sealing requirements of MIL-C-26482.

Resistant to Military Environments

These connectors will operate in temperatures from -67° to +257°F (-55° to +125°C) under the harshest possible conditions.

Wide Range of Wire Gauges and Current Carrying Capability

Up to 22 amps with wire gauges from size 24 up to size 16 AWG wire.

Resilient Insulator & Grommet

A resilient polychloroprene insulator and integrated rear wire sealing grommet

guarantees a liquid tight assembly. Crimp contacts are available that can be inserted from the rear of the connector. Solder contacts are permanently bonded into the insulator.

Solder or Crimp Gold Plated Contacts

Both solder (KPT) and crimp (KPSE) contacts are available. Both are gold plated per MIL-G-45204 Type II. KPSE crimp contacts are designed to MIL-C-39029 and can be crimped with the standard M22520/1 crimp tool. Socket contacts are closed to eliminate damage from test probes and to help correct misaligned pins during engagement. Contact insertion is from the rear of the connector. When the contact is fully inserted, it snaps securely into metal retention tines embedded in the insulator. Contact extraction is accomplished from the front with the proper extraction tool. Pressing the tool plunger pushes the contact out through the rear of the connector.

Agency Approvals

- MIL-C-26482
- VG 95 328

Cannon





Technical Specifications

NEW!

Industrial Platings

MATERIALS & FINISHES

Shell	Aluminum alloy
Plating	Olive drab chromate coating over cadmium plating, black zinc cobalt or electroless nickel
Contacts	Copper alloy
Platings	Gold plate, 50 microinches minimum per MIL-G-45204 Type II.
Insulator	Resilient polychloroprene (Neoprene). KPSE insulators also encase a tough plastic wafer which contains metal contact retention tines for high reliability retention of crimp contacts.

ELECTRICAL DATA

Operating Voltage & Test Voltage:

SERVICE RATING*	TEST ALTITUDE	MAXIMUM OPERATING VOLTAGE		TEST VOLTAGE	
		DC	AC(RMS)	DC	AC(RMS)
1	Sea Level	850	600	2100	1500
2		1,275	1,000	3,200	2,300
1	70,000 feet	-	300	535	375
2		-	450	770	550

*Each insulator layout has a specific "Service Rating". The Service Ratings for each layout are listed on [page KPT 13](#).

Current Rating

CONTACT SIZE	RATED CURRENT (AMPS)	TEST CURRENT (AMPS)	POTENTIAL DROP (Millivolts) Initial
20	7.5	7.5	< 55
16	22	13	< 50

Wire Range Sizes	24 to 16 AWG
Contact Resistance	When tested to MIL-STD-1344 Method 3004 will not exceed voltage drops listed in table. Consult MIL-C-26482, 3.6.4 for details.
Insulation Resistance	5,000 Megohms minimum at 77°F (25°C)

MECHANICAL

Operating Temperature	-67° to +257°F (-55° to +125°C)
Sealing	48 hours in 6 feet of water per MIL-C-26482 4.6.14. Meets 10 and 20 day 50-95% humidity testing per MIL-STD-1344 Method 1002.2 per MIL-C-26482.

Wire Sealing Range

CONTACT SIZE	AWG WIRE SIZE	INSULATION O.D. LIMITS: INCHES(mm)		
		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)

Cannon





Technical Specifications

Insulation Strip Lengths:

CONTACT SIZE	WIRE SIZE (AWG)	STRIP LENGTH INCHES (mm)
20	20-24	.375 (9.5)
16	16-20	.250 (6.35)

Mating Life	500 cycles minimum
Salt Spray	Unmated connectors and protective covers meet 48hour exposure to MIL-STD-1344 Method 1001 per MIL-C-26482. (Cadmium Plating)
Heat	+175°C (+347°F) for 1000 hours to MIL-STD-1344 Method 1005.1 per MIL-C-26482.
Chemical Resistance	20 hour full immersion unmated in hydraulic fluid and lubricating oil per MIL-C-26482.
Vibration	10 to 2,000Hz (15g's) 10 microseconds maximum discontinuity. To MIL-STD-1344 Method 2005 per MIL-C-26482.
Shock	50g's. 11ms duration, three major axes. 10 microseconds maximum discontinuity. To MIL-STD-1344 Method 2004 per MIL-C-26482.
Contact Type	Solder or PC (KPT); Crimp (KPSE)
Number of Circuits	KPT: 2 to 61; KPSE: 3 to 61
Contact Insertion (crimp)	Insertion from the rear of connector with simple hand tool. Front release with appropriate extraction tool.
Contact Retention	To MIL-STD-1344 Method 2007 per MIL-C-26482.

CONTACT SIZE	AXIAL LOAD MIN. Newtons (lbs)
20	66.7 (15)
16	111.2 (25)

Polarization	Five Keyway, three point bayonet with optional rotational polarization. See page KPT 13.
Approvals	▪MIL-C-26482 ▪VG 95 328

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

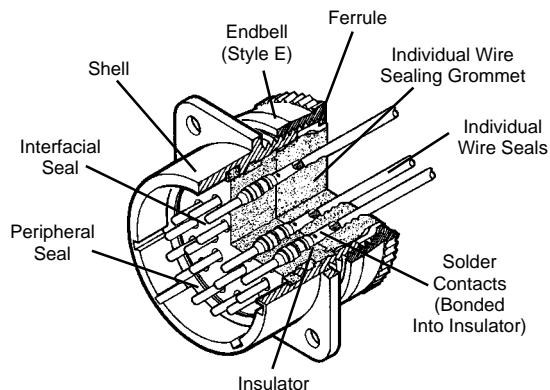
How to Order

There are three types of MIL-C-26482 Series 1 Connectors. KPT contains solder contacts. KPSE uses high performance crimp contacts and KPTB is a special purpose thru-bulkhead connector. Choose which series is best suited to your application and then construct the part number from the How-To- Order presentation on the next page. Photographs of typical assemblies and dimensions can be found on [pages KPT 6 through KPT 13.](#)

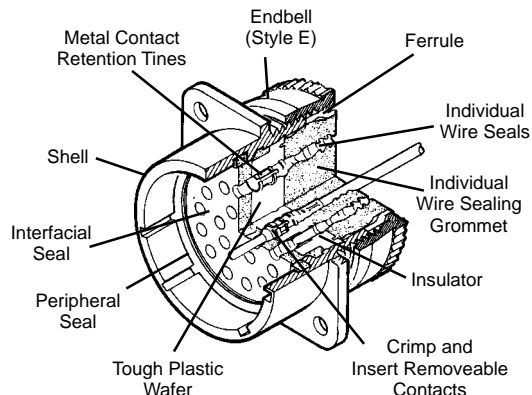
Cannon



KPT (solder)



KPSE (crimp)



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How to Order

KPT – Solder Contact Connectors



Industrial Platings – Black zinc cobalt and electroless nickel

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

SERIES PREFIX _____

SHELL STYLE _____

CLASS _____

SHELL SIZE _____

CONTACT ARRANGEMENT _____

CONTACT STYLE _____

ALTERNATE INSERT POSITION _____

MODIFICATION CODE _____

SERIES PREFIX
KPT – ITT Cannon prefix
MS – MIL-C-26482 prefix

SHELL STYLE

MS	Cannon KPT	Designation
3110	00	wall mounting receptacle
3111	01	cable connecting receptacle
3112	02	box mounting receptacle (Class E only)
-	03*	wall mounting receptacle without grommet, ferrule and endbell
-	04*	cable connecting receptacle without grommet, ferrule and endbell
-	05*	straight plug without grommet, ferrule and endbell
3116	06	straight plug
3114	07	jam nut receptacle (available in hermetic version also)
-	08	90° angle plug
3119	B	thru-bulkhead receptacle (Class E only)

*Call for details

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

CONTACT ARRANGEMENT

See contact arrangements - [Pages KPT 12 and 13](#).

CONTACT STYLE

P – pin; S – socket

ALTERNATE INSERT POSITION

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

MODIFICATION CODE (NOT MS APPROVED)

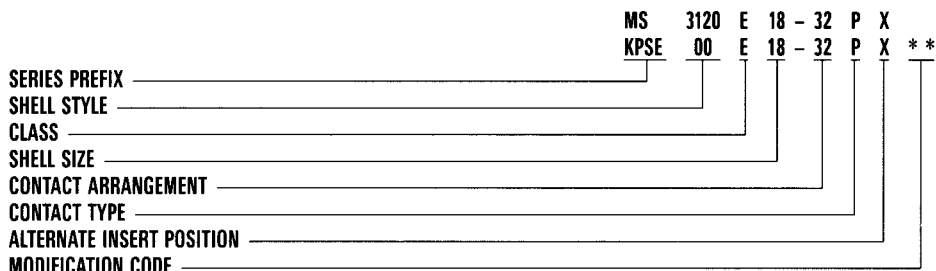
- A71 - Electroless nickel
- A206 - Black zinc cobalt
- DN - Shrink boot adapter
- DZ - Shrink boot adapter for shielded cable

KPSE – Crimp Contact Connectors



**Industrial Platings –
Black zinc cobalt and
electroless nickel**

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SERIES PREFIX
 KPSE – ITT Cannon prefix
 MS – MIL-C-26482 prefix

SHELL STYLE

MS	Cannon KPSE	Designation
3120	00	wall mounting receptacle
3121	01	cable connecting receptacle
3122	02	box mounting receptacle (E only)
-	03*	wall mounting receptacle without ferrule and endbell
-	04*	cable connecting receptacle without ferrule and endbell
-	05*	straight plug without ferrule and endbell
3126	06	straight plug
3124	07	jam nut receptacle
-	08	90° angle plug

*Call for details

CLASS

- A – general duty (not MS approved)
- B – general duty with strain relief without grommet & ferrule (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 - [Pages KPT 12 and 13](#).

CONTACT STYLE
 P – pin
 S – socket

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

MODIFICATION CODE

- FO – less contacts, not marked on connectors
- A71 – Electroless nickel plating
- A206 – Black zinc cobalt plating
- DN – Heat shrink boot adapter
- DZ – Heat shrink boot adapter for shielded cable

KPTB – Thru Bulkhead Receptacle Connectors

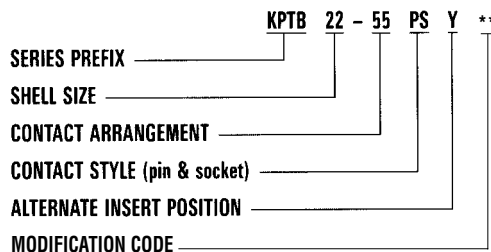
- General Purpose
- Double ended pin and socket contacts
- Contains KPT socket insert
- Nonremovable contacts

KPTB 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 is 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.

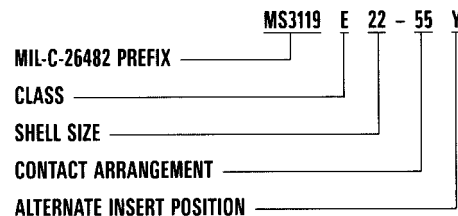


**Industrial Platings –
Black zinc cobalt and
electroless nickel**



MODIFICATION CODE (NOT MS APPROVED)

A71 – Electroless nickel
 A206 – Black zinc cobalt



KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

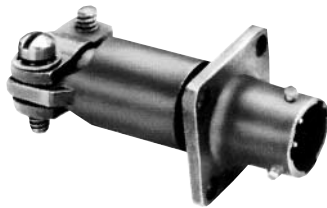


Dimensions

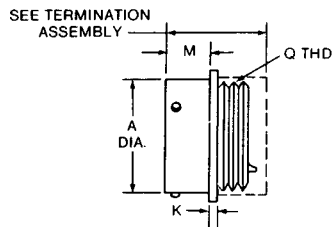
Wall Mounting Receptacles

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

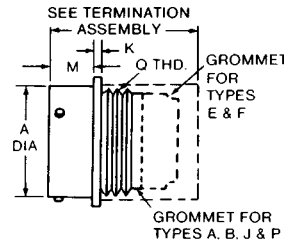
KPT00
KPSE00



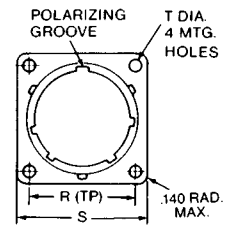
"F" Endbell Shown



SOLDER
KPT00/MS3110



CRIMP
KPSE00/MS3120

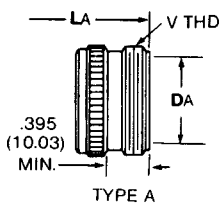


RECEPTACLE ASSEMBLY

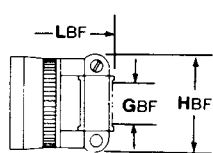
Shell Size	A ±.003 (±.08)	K ±.016 (±.41)	M +.031 (+.79) -.000 (-.00)	R* (TP)	S Max.	T ±.005 (±.13)	Q Thread Class 2A
#8	.471 (11.96)	.062 (1.57)	.431 (10.95)	.594 (15.09)	.828 (21.03)	.120 (3.05)	7/16-28UNEF
10	.588 (14.96)	.062 (1.57)	.431 (10.95)	.719 (18.26)	.954 (24.23)	.120 (3.05)	9/16-24UNEF
12	.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.

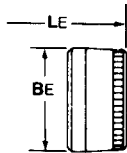
Endbells for Above



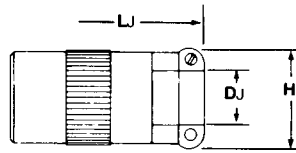
TYPE A



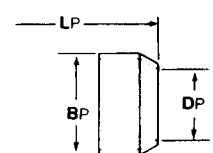
TYPE B AND F



TYPE E



TYPE J



TYPE P

NEW!



DN



DZ

Call for details

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 (8.51)	1.444 (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)	1.444 (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/.635 (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 KPT 2.](#)

Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14.](#)

Contact Arrangements – [Page KPT 12.](#)

Potting Compound – [Page ACC 5.](#)

Mounting Hardware – [Page ACC 1.](#)

Heat Shrink Boots – [Pages ACC 2-3.](#)

Dimensions are shown in inches (millimeters).
Dimensions subject to change

For technical assistance, price or delivery info, call 1-800-523-0727 or visit www.pei-genesis.com

www.DataSheet4U.com
Specifications subject to change

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

Dimensions



Cable Connecting Receptacle

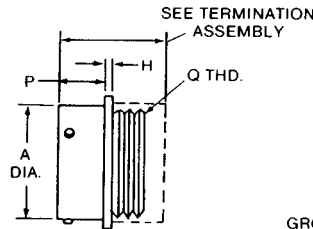
MS3111 (MS service class E, F, J, P)
MS3121 (MS service class E, F, P)

KPT01
KPSE01

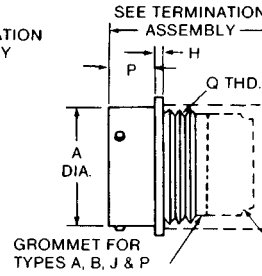


"E" Endbell Shown

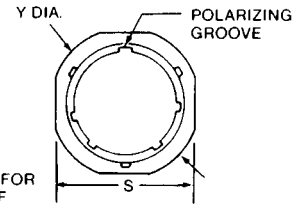
KPSE01



SOLDER
KPT01/MS3111



CRIMP
KPSE01/MS3121

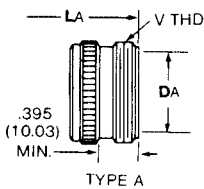


PLUG ASSEMBLY

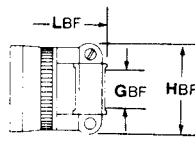
Shell Size	A		H		P		S Max.	Y Max.	Q Thread Class 2A
	±.003 (±.08)	±.016 (±.41)	±.031 (+.79)	-.000 (-.00)					
8	.471 (11.96)	.094 (2.39)	.400 (10.16)	.828 (21.03)	.958 (24.33)	7/16-28UNEF			
10	.588 (14.94)	.094 (2.39)	.400 (10.16)	.954 (24.23)	1.082 (27.48)	9/16-24UNEF			
12	.748 (19.00)	.094 (2.39)	.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)	.568 (14.43)	1.703 (43.26)	1.832 (46.53)	1-7/16-18UNEF			

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

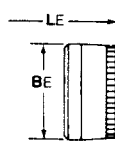
Endbells for Above



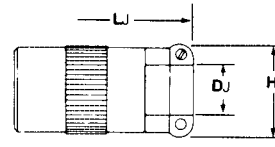
TYPE A



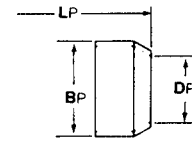
TYPE B AND F



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 (8.51)	1.444 (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)	1.444 (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)

NEW!



DN



DZ

Call for details

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/.635 (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 KPT 2.](#)

Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14.](#)

Contact Arrangements – [Page KPT 12.](#)

Potting Compound – [Page ACC 5.](#)

Mounting Hardware – [Page ACC 1.](#)

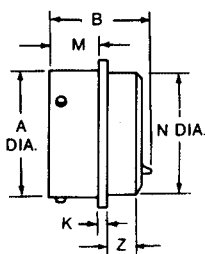
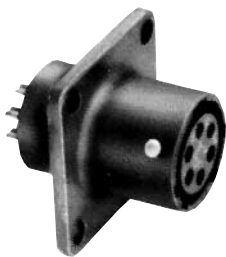
Heat Shrink Boots – [Pages ACC 2-3.](#)

Dimensions are shown in inches (millimeters). KPT
Dimensions subject to change
www.DataSheet4U.com
Specifications subject to change.

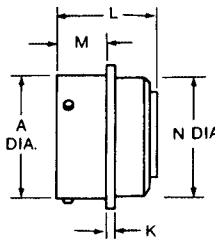
Box Mounting Receptacles

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

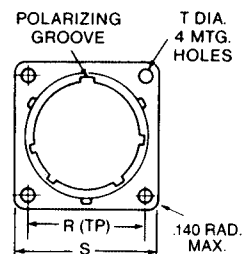
KPT02
KPSE02



SOLDER
KPT02/MS3112



CRIMP
KPSE02/MS3122



RECEPTACLE ASSEMBLY

Sheet4U.com

Connector does not accommodate backshell.

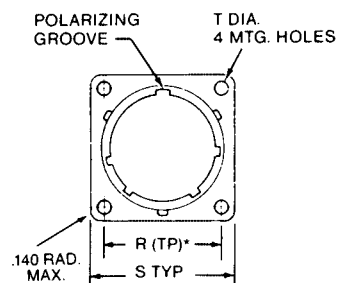
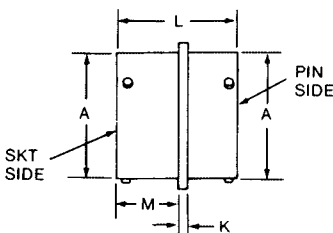
Shell Size	A ±.003 (±.08)	B Max	K ±.016 (±.41)	L Max.	M +.031 (+.79) -.000 (.00)	N Dia. Max.	R* (TP)	S Max.	T ±.005	Z Max.
8	.471 (11.96)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.431 (10.95)	.469 (11.91)	.594 (15.09)	.828 (21.03)	.120 (3.05)	.354 (8.99)
10	.588 (14.96)	.978 (12.14)	.062 (1.57)	1.320 (33.07)	.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 (30.38)	.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 .010 T.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.

Performance Specifications – [Page KPT 2](#).

Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14](#).

Contact Arrangements – [Page KPT 12](#).

Mounting Hardware – [Page ACC 1](#).

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)

Dimensions



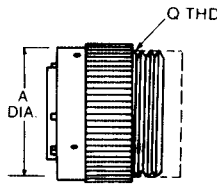
Straight Plugs

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

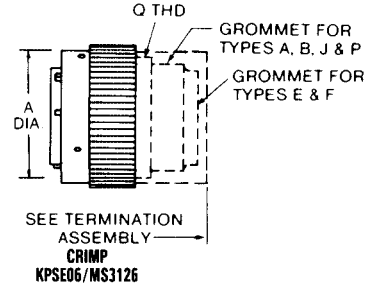
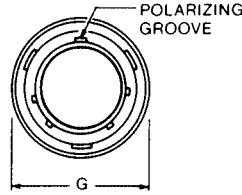


"F" Endbell Shown

KPT06
KPSE06



SOLDER
KPT06/MS3116

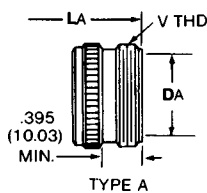


SEE TERMINATION
ASSEMBLY
CRIMP
KPSE06/MS3126

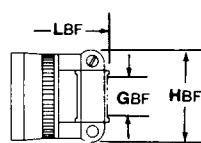
Shell Size	A dia. Max	G Max	J ±.010 (±0.25)	Q Thread Class 2A
8	.765 (19.43)	.782 (19.86)	.353 (8.99)	7/16-28UNEF
10	.840 (21.34)	.926 (23.52)	.353 (8.99)	9/16-24UNEF
12	.999 (25.38)	1.043 (26.49)	.353 (8.99)	11/16-24UNEF
14	1.139 (28.93)	1.183 (30.05)	.353 (8.99)	13/16-20UNEF
16	1.261 (32.03)	1.305 (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)	1.777 (45.14)	.415 (10.54)	1-7/16-18UNEF

‡Not available in KPSE

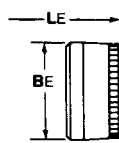
Endbells for Above



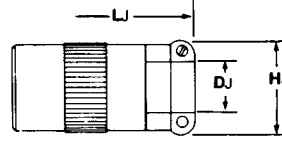
TYPE A



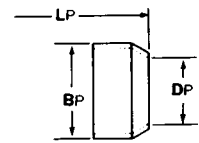
TYPE B AND F



TYPE E



TYPE J



TYPE P

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)	.321/.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/.635 (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

NEW!



DN



DZ

Plug includes grounding finger barrel, call for details.

Performance Specifications – [Page KPT 2.](#)

Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14.](#)

Contact Arrangements – [Page KPT 12.](#)

Potting Compound – [Page ACC 5.](#)

Heat Shrink Boots – [Pages ACC 2-3.](#)

Dimensions are shown in inches (millimeters).

Dimensions subject to change

www.DataSheet4U.com

Specifications subject to change.

For technical assistance, price or delivery info, call 1-800-523-0727 or visit www.pei-genesis.com

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

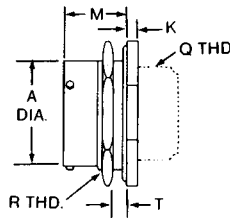
Jam Nut Receptacles

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

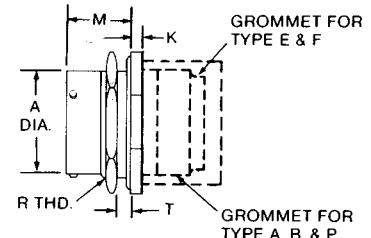
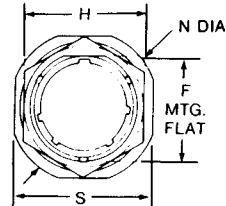
KPT07
KPSE07



"E" Endbell Shown



SOLDER
KPT07/MS3114

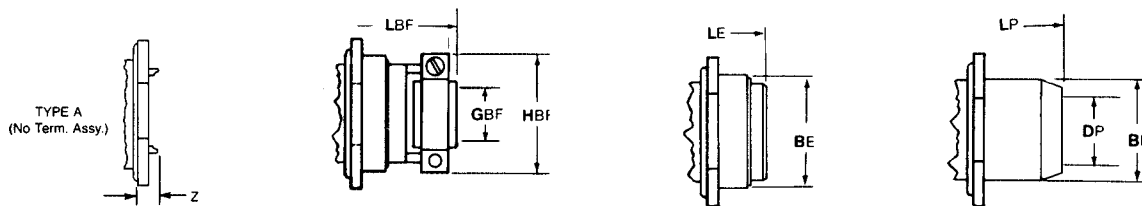


CRIMP
KPSE07/MS3124

Shell Size	A	F	H	K	M	N	S	T Panel Thickness		R thread
	±.003 (±0.08)	±.005 (.130)	±.017 (±0.43)	±.020 (±.05)	+.031 (+.08) -.000 (-.00)	Max.	max.	Min.	Max.	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)	1.203 (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)	1.641 (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

Endbells for Above



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 (2.92)	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	.193 (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	.193 (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)

Performance Specifications – [Page KPT 2.](#)

Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14.](#)

Contact Arrangements – [Page KPT 12.](#)

Potting Compound – [Page ACC 5.](#)

Dimensions are shown in inches (millimeters).
Dimensions subject to change

For technical assistance, price or delivery info, call 1-800-523-0727 or visit www.pei-genesis.com

www.DataSheet4U.com
Specifications subject to change

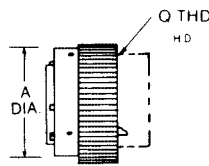
KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

Right Angle Plugs

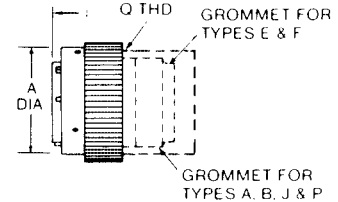
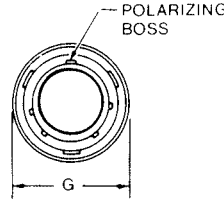


"F" Endbell Shown

KPT08
KPSE08



Solder KPT08



Crimp KPSE08

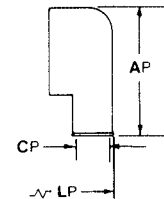
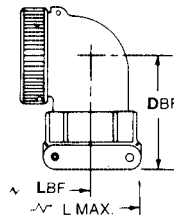
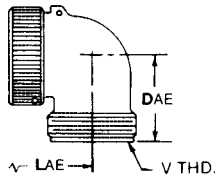
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Performance Specifications – [Page KPT 2](#).
 Contacts, Wire Hole Fillers, Assembly Tools – [Page KPT 14](#).
 Contact Arrangements – [Page KPT 12](#).
 Potting Compound - [Page ACC 5](#).

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.

Endbells for Above



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.
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	— (—)	— (—)	— (—)
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)
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)
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)
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)
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)
20	1.879 (47.73)	1.166 (29.62)	1-3/16-18UNEF	1.707 (43.36)	1.879 (47.73)	2.629 (66.78)	1-3/16-18UNEF	1.530 (38.86)	1.782 (45.26)	.562 (14.27)
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)
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)

‡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.

Dimensions are shown in inches (millimeters).
 Dimensions subject to change.



Layouts by Shell Size

LEGEND

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

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

Shell Size 8

Series	▲△	▲△	▲△	▲△
Shell Size/Layout	8-2	8-3	8-4	8-33
No. of Contacts	2-#20	3-#20	4-#20	3-#20

Shell Size 10

Series	▲△	▲◆△	△●
Shell Size/Layout	10-98	10-6	10-7
No. of Contacts	6-#20	6-#20	7-#20

Shell Size 12

Series	▲◆△	▲△	▲◆△
Shell Size/Layout	12-3	12-8	12-10
No. of Contacts	3-#16	8-#20	10-#20

Shell Size 14

Series	▲◆△	▲◆△	▲◆△
Shell Size/Layout	14-5	14-12	14-15
No. of Contacts	5-#16	8-#20 4-#16	14-#20 1-#16

Shell Size 16

Series	▲△	▲◆△
Shell Size/Layout	14-18	14-19
No. of Contacts	18-#20	19-#20

Series	▲◆△	▲△	▲◆△
Shell Size/Layout	16-8	16-23	16-26
No. of Contacts	8-#16	22-#20 1-#16	26-#20

Shell Size 18

Series	▲◆△
Shell Size/Layout	18-11
No. of Contacts	11-#16

Shell Size 20

Series	▲△	▲◆△
Shell Size/Layout	18-30	18-32
No. of Contacts	29-#20 1-#16	32-#20

Series	▲◆△	▲△	▲◆△	▲◆△
Shell Size/Layout	20-16	20-24	20-39	20-41
No. of Contacts	16-#16	24-#20	37-#20 2-#16	41-#20

Shell Size 22

Series	▲◆△	▲△
Shell Size/Layout	22-21	22-32
No. of Contacts	21-#16	32-#20

Series	▲△	▲●	▲△	▲◆△
Shell Size/Layout	22-34	22-36	22-41	22-55
No. of Contacts	34-#20	36-#20	27-#20 14-#16	55-#20

Shell Size 24

Series	▲◆△
Shell Size/Layout	24-61
No. of Contacts	61-#20

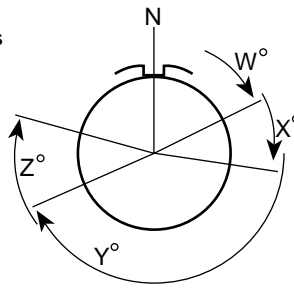
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KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

Layouts by Number of Contacts



Mating Face view of pin inserts



Alternate Insert Position

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

NO. OF CONTACTS			SERIES		SHELL SIZE	LAYOUT	DEGREES OF ROTATION				SERVICE RATING
TOTAL	#20	#16	KPT	KPSE			W	X	Y	Z	
2	2		•		8	8-2	58	122	-	-	1
3	3		•		8	8-3	60	210	-	-	1
3	3		•		8	8-33	90	-	-	-	1
3		3	•	•	12	12-3	-	-	180	-	2
4	4		•		8	8-4	45	-	-	-	1
5		5	•	•	14	14-5	40	92	184	273	2
6	6		•	•	10	10-6	90	-	-	-	1
6	6		•		10	10-98	90	180	240	270	1
7	7		•		10	10-7*	90	-	-	-	1
8	8		•		12	12-8	90	112	203	292	1
8		8	•	•	16	16-8	54	152	180	331	2
10	10		•	•	12	12-10	60	155	270	295	1
11		11	•	•	18	18-11	62	119	241	340	2
12	8	4	•	•	14	14-12	43	90	-	-	1
15	14	1	•	•	14	14-15	17	110	155	234	1
16		16	•	•	20	20-16	238	318	333	347	2
18	18		•		14	14-18	15	90	180	270	1
19	19		•	•	14	14-19	30	165	315	-	1
21		21	•	•	22	22-21	16	135	175	349	2
23	22	1	•		16	16-23	158	270	-	-	1
23	21	2	•		16	16-99	66	156	223	340	1
24	24		•		20	20-24	70	145	215	290	1
26	26		•	•	16	16-26	60	-	275	338	1
30	29	1	•		18	18-30	180	193	285	350	1
32	32		•	•	18	18-32	85	138	222	265	1
32	32		•		22	22-32	72	145	215	288	1
34	34		•		22	22-34	62	142	218	298	1
36	36		•		22	22-36*	72	144	216	288	1
39	37	2	•	•	20	20-39	63	144	252	333	1
41	41		•		20	20-41	45	126	225	-	1
41	27	14	•		22	22-41	39	135	264	-	2
55	55		•	•	22	22-55	30	142	226	314	1
61	61		•	•	24	24-61	90	180	270	324	1

* indicates contact arrangements are not to MIL-C-26482.

Operating Voltage & Test Voltage:

SERVICE RATING*	TEST ALTITUDE	MAXIMUM OPERATING VOLTAGE		TEST VOLTAGE	
		DC	AC(RMS)	DC	AC(RMS)
1	Sea Level	850	600	2100	1500
2		1,275	1,000	3,200	2,300
1	70,000 feet	-	300	535	375
2		-	450	770	550

*Each insulator layout has a specific "Service Rating" indicated in last column.



Crimp Contacts

	Contact Size	Part Number
Pin	20	030-9036-021
	16	030-9032-030
Socket	20	031-9074-030
	16	031-9095-028
Wire Hole Filler	20	225-1012-000
	16	225-1011-000
Crimp Tool	20	192990-2050
	16	192990-2050
		(M22520/1-01)
Turret	20	TH1A
	16	TH1A
		(M22520/1-02)
Insertion Tool	20	MS24256A20
	16	MS24256A16
Extraction Tool	20	MS24256R20
	16	MS24256R16

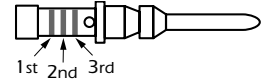
KPSE Crimp Kit

Kit includes:
 Crimp Tool
 Locator
 Insertion Tools 16 + 20
 Extraction Tools 16 + 20
 Contact Insertion Lubricant
 Assembly Instructions
 Rugged Case



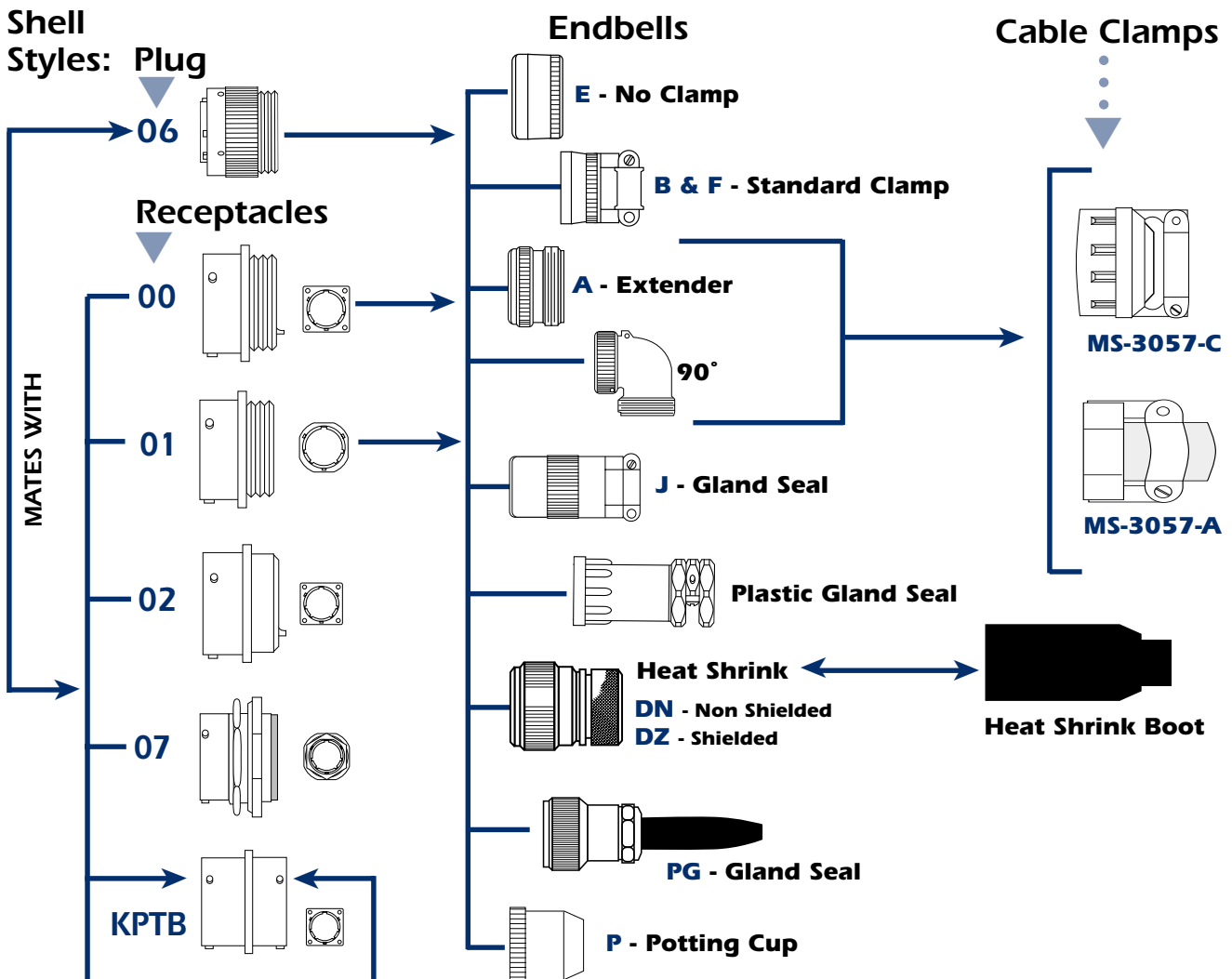
Contact Identification

(To MIL-C-39029)



Contact Size	Color Bands on Contacts		
	1st	2nd	3rd
20 pin	RED	YELLOW	BLACK
20 socket	RED	GREEN	WHITE
16 pin	RED	RED	GREY
16 socket	RED	YELLOW	VIOLET

KPT/KPSE Selection Guide

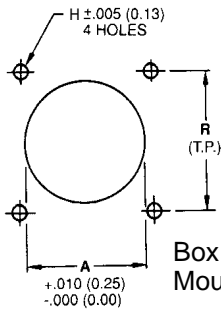


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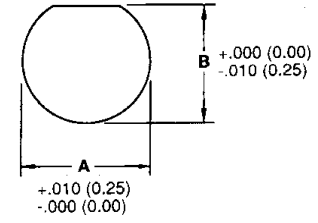
Dimensions



Panel Cutouts



Box and Wall Mounting Receptacle



Jam Nut Receptacle

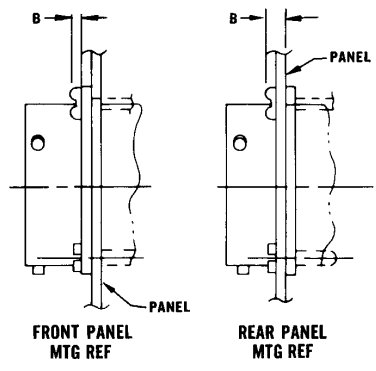
SHELL SIZE	A dia.- inches(mm)		R - inches(mm)	H±.005	Screw*	A	B
	FRONT	REAR					
8‡	.500 (12.70)	.551 (14.0)	.594 (15.09)	.125 (3.17)	#4	.578 (14.68)	.540 (13.72)
10	.630 (16.00)	.669 (17.0)	.719 (18.26)	.125 (3.17)	#4	.703 (17.86)	.665 (16.89)
12	.751 (19.75)	.866 (22.0)	.812 (20.62)	.125 (3.17)	#4	.890 (22.61)	.828 (21.02)
14	.876 (22.25)	.984 (25.0)	.906 (23.01)	.125 (3.17)	#4	1.015 (25.78)	.952 (24.18)
16	1.001 (25.43)	1.102 (28.0)	.969 (24.61)	.125 (3.17)	#4	1.140 (28.96)	1.076 (27.33)
18	1.126 (28.60)	1.220 (31.0)	1.062 (26.97)	.125 (3.17)	#4	1.265 (32.13)	1.201 (30.51)
20	1.251 (31.78)	1.358 (34.5)	1.156 (29.36)	.125 (3.17)	#4	1.390 (35.31)	1.326 (33.68)
22	1.376 (34.95)	1.476 (37.5)	1.250 (31.75)	.125 (3.17)	#4	1.515 (38.48)	1.451 (36.86)
24	1.501 (38.13)	1.614 (41.0)	1.375 (34.92)	.155 (3.94)	#6	1.640 (41.66)	1.576 (40.03)

‡ Not available in KPSE connectors.

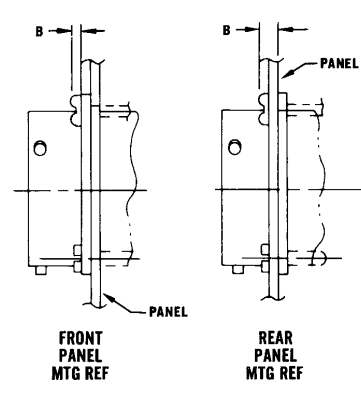
* See Accessories on [page ACC.1](#) for sealing screws.

Panel Thickness

Wall Mounting and Box Mounting Receptacle

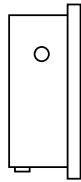
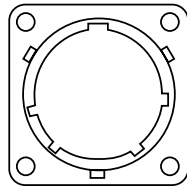


Thru-Bulkhead Receptacle



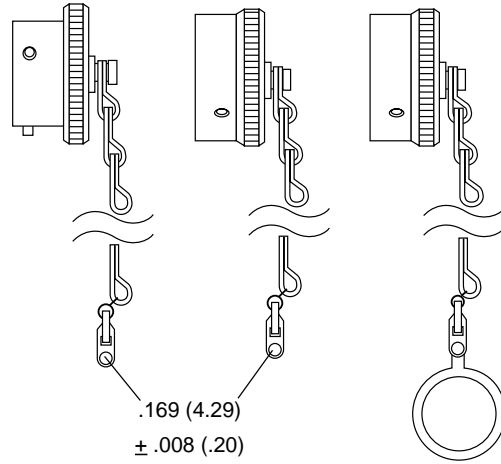
Size	B Max panel and screw head	Size	B Max panel and screw head		
8	inches (mm)	8	inches (mm)		
10		10			
12		12			
14		.087		14	.218
16		(2.21)		16	(5.54)
18	.212	18	.334 (8.74)		
20		20			
22		22			
24		24			
	(5.38)		.311 (7.90)		

Dummy Receptacles



See page KPT 15 for panel cutouts.

Metal Dust Caps*



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SHELL SIZE	PART NUMBER	FOR PLUGS	FOR RECEPTACLE	
			Flanged* With Sash Chain	Jam Nut* With Sash Chain and Ring
8	MS3115-8	MS3180-8CA	MS3181-8CA	MS3181-8NA
10	MS3115-10	MS3180-10CA	MS3181-10CA	MS3181-10NA
12	MS3115-12	MS3180-12CA	MS3181-12CA	MS3181-12NA
14	MS3115-14	MS3180-14CA	MS3181-14CA	MS3181-14NA
16	MS3115-16	MS3180-16CA	MS3181-16CA	MS3181-16NA
18	MS3115-18	MS3180-18CA	MS3181-18CA	MS3181-18NA
20	MS3115-20	MS3180-20CA	MS3181-20CA	MS3181-20NA
22	MS3115-22	MS3180-22CA	MS3181-22CA	MS3181-22NA
24	MS3115-24	MS3180-24CA	MS3181-24CA	MS3181-24NA

*Sash chain version for attachment to mounting screw on flanged receptacles.

Sash chain with ring for mounting to jam nut receptacle.

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

KPT Solder Contacts

- Slide the rear accessories over the wire bundle in the proper sequence for re-assembly: cable clamp and/or endbell first, then ferrule, and (if used) the coupling nut.
- Insert individual wires through the proper holes in the grommet.
- Solder wires to appropriate contacts on the rear of the connector. ITT Cannon document RPI234 covers standard soldering practices and is available upon request by fax or mail. Please call.
- Fixture the connector for re-assembly using the endbell assembly tools on [page ACC 4](#) or a mating connector with contacts installed.
- Slide the grommet down the wires (lubricating the grommet with isopropyl alcohol will help).
- Fill all unused grommet cavities with a wire hole filler to maintain the sealing integrity of the connector.
- Slide coupling nut, ferrule, and endbell accessories over rear of the connector and tighten. Torque as follows:

SIZE	TORQUE (INCH/LBS)
8, 10, 12, 14	10 - 15
16, 18	15- 25
20, 22, 24	25 - 35

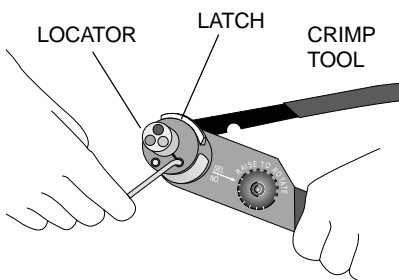
KPSE Crimp Tool Operation

Hand Crimp Tool

- Strip the wires to the appropriate length.

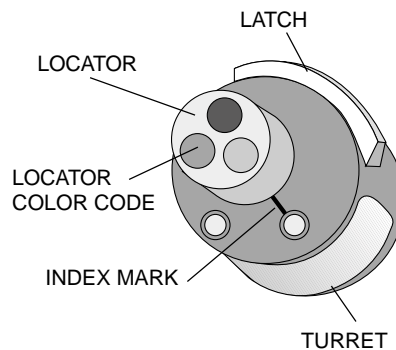
CONTACT SIZE	STRIP LENGTH
20	3/16" (4.8)
16	1/4" (6.4)

- Open the 192990-2050 (M22520/1-01) crimp tool by squeezing the handles. Push the latch on TH1A (M22520/1-02) to pop up the locator on the turret. Attach the turret to the 192990-2050 crimp tool using the two captive hex bolts in the turret.

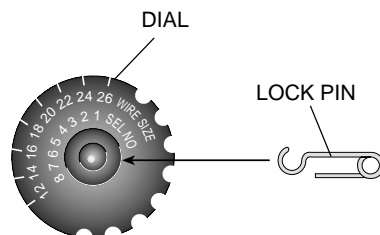


- Select the proper locator position for your contact by rotating the locator until the proper color is aligned with the index mark. Push locator back down until it snaps into position.

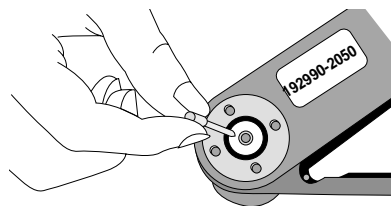
CONTACT SIZE	LOCATOR COLOR
20	RED
16	BLUE



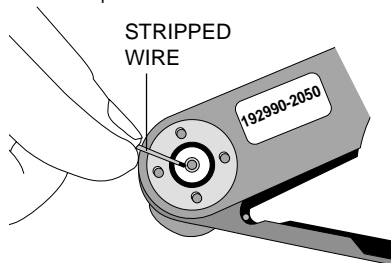
- Adjust dial for proper wire gauge. To change the dial setting remove the lock pin and lift center of dial. Turn to the desired wire gauge. Replace lock pin on dial.



- Cycle the tool before inserting the contact to be sure the tool is in the open position. Drop the contact, mating end first, into the crimp cavity of the tool. Squeeze the tool handle just enough to grip the contact without actually crimping it.

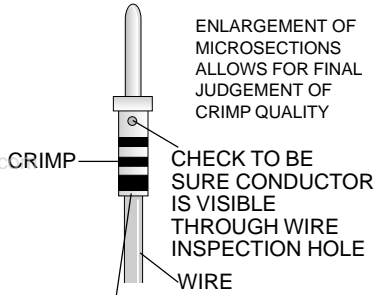


- Insert the stripped wire into the contact with a slight twisting motion. Be sure all wire strands are inside the contact. Squeeze the handle to cycle the tool. The handle will not release until the contact is completely crimped.



Crimp Tool Operation (continued)

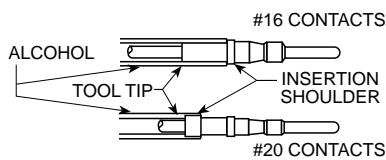
- Remove the crimped contact. Pull on the wire slightly to be sure it is properly crimped. Be sure the contact is not bent or damaged in any way. Visually inspect the crimp:



INSULATION SHOULD BUTT UP AGAINST THE END OF THE CONTACT.

Insertion of Contacts

- Slide the rear accessories over the wire bundle in the proper sequence for re-assembly: cable clamp and/or endbell first, then ferrule, and coupling nut.
- Using the proper insertion tool from the chart on [page KPT 14](#), slide the tool over the wire side of the contact until the tool bottoms on the contact.

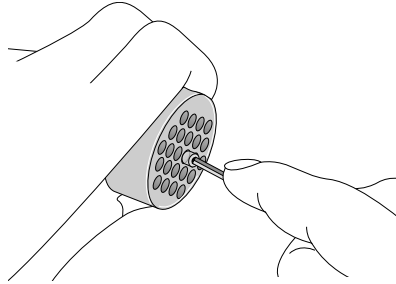


The tool for size 16 contacts butts against the shoulder of the contact. The rear, or insulation support, of the size 20 contacts butts against an internal shoulder in the tool tip.

- Dip the contact and tool tip in isopropyl alcohol (do not use any lubricant other than isopropyl alcohol). Hold the tool perpendicular to the rear of the connector. Beginning with the center cavity and working outwards in a circular pattern, insert the wired

Insertion of Contacts (continued)

contact into the rear of the connector until the contact snaps into place. A light pull on the wire will assure that the contact is locked securely.



- Fill any unused cavities with contacts. A wire hole filler must be inserted into the grommet behind the unused contacts to maintain the sealing integrity of the connector.
- Check the mating face of the connector to insure that all the same size contacts are on the same plane (fully inserted). If not, the contact is not fully inserted. Remove the contact using the proper extraction tool and procedure and re-insert. Do not attempt to reinsert the insertion tool to correct the problem.

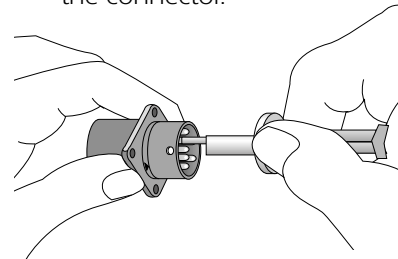


- Fixture the connector for re-assembly using the endbell assembly tools on [page ACC 4](#) or a mating connector with contacts installed. Slide the connector accessories back down the cable over the rear of the connector and tighten. Torque as follows:

SIZE	TORQUE (INCH/LBS)
8, 10, 12, 14	10 - 15
16, 18	15 - 25
20, 22, 24	25 - 35

Extraction of Contacts

- Remove the endbell accessories and slide them back over the wires.
- Use the proper extraction tool from the chart on [page KPT 14](#).
- On the mating face of the connector, insert the tool over the contact and into the insulator until the tool bottoms. While keeping an even pressure against the tool, push the plunger on the tool shaft forward with your thumb and index finger. This will release the contact from the retention tine and push it toward the rear of the connector.

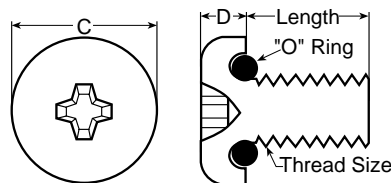
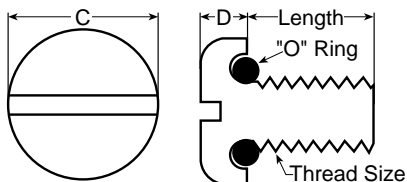


- Carefully remove extraction tool from the connector. Pull the wire by hand to completely remove the contact from the rear of the connector.



Sealing screws are designed with a groove underneath the head to incorporate an O-ring. When tightened, the O-ring is compressed against the connector flange to form an air, water, and gas-tight seal. These screws are also vibration resistant. The reservoir beneath the

head confines the O-ring and permits full metal-to-metal contact between the screw and the connector flange. Sealing screws can be reused without spoiling the sealing action. Sealing screws are used in conjunction with the nutplates below.



SLOTTED PAN HEAD						
PART NUMBER	THREAD	LENGTH	C MAX	D MAX	CLEAR HOLE	
					MIN	MAX
S-440-3/8	4-40NC-2A	3/8"	.220"	.069"	.125"	.129"
S-440-1/2		1/2"				
S-440-5/8		5/8"				
S-440-3/4		3/4"				
S-632-3/8	6-32NC-2A	3/8"	.271"	.083"	.147"	.152"
S-632-1/2		1/2"				
S-632-5/8		5/8"				
S-632-3/4		3/4"				
METRIC						
SM4-12MM	M4	12MM	CALL	CALL	CALL	CALL
SM5-12MM	M5	12MM	CALL	CALL	CALL	CALL

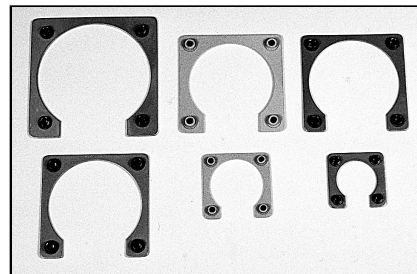
PHILLIPS PAN HEAD (meets MS3212 & MS3213)						
PART NUMBER	THREAD	LENGTH	C MAX	D MAX	CLEAR HOLE	
					MIN	MAX
R-440-3/8	4-40NC-2A	3/8"	.238	.080"	.125"	.129"
R-440-1/2		1/2"				
R-440-5/8		5/8"				
R-440-3/4		3/4"				
R-632-3/8	6-32NC-2A	3/8"	.294"	.097"	.147"	.152"
R-632-1/2		1/2"				
R-632-5/8		5/8"				
R-632-3/4		3/4"				

Material: Passivated stainless steel screws, silicone rubber O-rings

Additional threads, lengths, and styles available. Call for ordering information.

Nut Plates

Nut plates are flat metal brackets containing four captive nuts that are used to mount flanged receptacles to a panel. They eliminate the nightmare of working with loose nuts in a confined area and effectively distribute the screw tension across the back of the panel. These cost effective devices are "self-wrenching", drawing the bracket up to be automatically aligned. Our plates are a C shape design which allows you to slip the nut plate over the wire bundle just prior to mounting. The bracket is aluminum alloy with Alodine plating and the nuts are steel alloy plated with cadmium. Nut plates mate with above Sealing Screws.

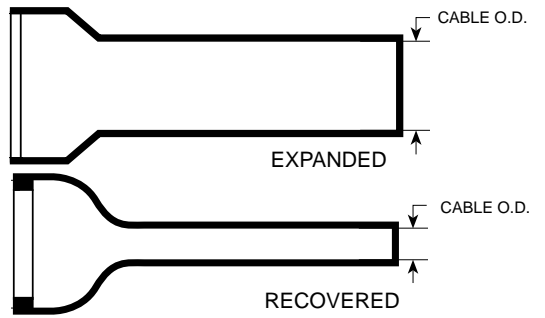


Connector Styles		Commercial Industrial	MIL-C-5015 Style	MIL-C-26482 Style		MIL-C-38999 Style		
Part Number	Thread	Sure-Seal, APD, SLC	CA/MS CB/CR	KPT, KPSE, PV70, MS3470, Trident	PV72, MS3472	KJL Series I	KJ Series II	KJA Series III
M85528/2-8A	4-40		8/8S	8			8	
M85528/2-10A	4-40		10S/10SL	10		9	10	A
M85528/2-10B	6-32				10			
M85528/2-12A	4-40		12/12S	12	10	11	12	B
M85528/2-12B	6-32				12			
M85528/2-14A	4-40	APD1,4,7 SSF2,3,4	14/14S	14		13	14	C
M85528/2-14B	6-32				14			
M85528/2-16A	4-40		16/16S	16		15	14	D
M85528/2-16B	6-32	SLC10			16			
M85528/2-18A	4-40	SSF8,9,10	18	18		17	18	E
M85528/2-18B	6-32				18			
M85528/2-20A	4-40		20	20		19	20	F
M85528/2-20B	6-32				20			
M85528/2-22A	4-40		22	22		21	22	G
M85528/2-22B	6-32				22			
M85528/2-24A	6-32				24	25		J
M85528/2-24B	6-32		24	24		23	24	H
M85528/2-25A	6-32					25		
M85528/2-28A	6-32		28	24 Neptune only				
M85528/2-32A	6-32		32					
M85528/2-36A	6-32		36					



Heat Shrink Boots

Standard Heat Shrink Boots are supplied in flame retardant polyolefin with an adhesive inner liner. A High Shrink Ratio version for sealing smaller wire bundles is also listed. The adhesive liner is heat activated and bonds to the underlying surface filling small voids. When cool, the adhesive forms a barrier against water, moisture, dirt, and other environmental contaminants. The lip on the connector end of the recovered boot fits into the sealing groove on the M and N style endbells used with CA/MS, CB, CR and KPT/KPSE connectors. Operating temperature is -67°F (-55°C) to +275°F (+135°C). These boots are also available in halogen free polyolefin, semi-rigid polyolefin, silicone, or Viton, with or without adhesive liner. Call for ordering information. [See page ACC 5](#) for Heat Shrink Gun.



(Note: Allow at least 20% recovery for proper liner adhesion)

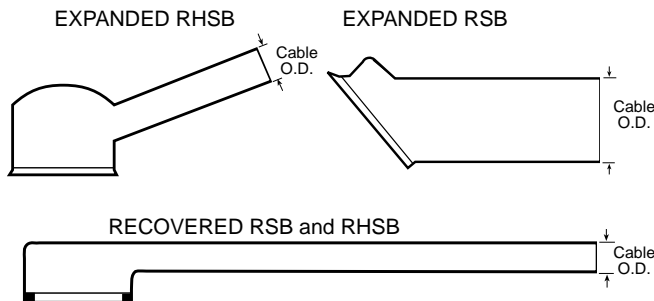
CABLE O.D. INCHES												
MAX (expanded)	0.25	0.30	0.38	0.45	0.88	1.01	1.16	1.34	1.47	1.72	1.97	2.47
MIN	0.08	0.10	0.12	0.14	0.25	0.29	0.33	0.39	0.41	0.44	0.51	0.69
CABLE O.D. MM												
MAX	(6.3)	(7.6)	(9.6)	(11.4)	(22.3)	(25.6)	(29.5)	(34.0)	(37.3)	(43.7)	(50.0)	(62.7)
MIN	(2.1)	(2.6)	(3.0)	(3.6)	(6.3)	(7.4)	(8.4)	(10.0)	(10.4)	(11.1)	(13.0)	(17.5)
PART NUMBER →	HSB1	HSB2	HSB3	HSB4	SB1	SB2	SB3	SB4	SB5	SB6	SB7	SB8
CA-Bayonet N=N Endbell M=M Shielded Endbell												
CB10SL-M	●				●	●						
CB10SL-N	●				●	●						
CB12S-M		●			●	●		●				
CB12S-N	●				●	●						
CB14S-M		●			●	●		●				
CB14S-N	●	●			●	●		●				
CB16-M		●				●		●				
CB16-N		●				●		●				
CB16S-M		●				●		●				
CB16S-N		●			●			●				
CB18-M			●				●	●				
CB18-N		●					●	●				
CB20-M			●	●				●	●	●		
CB20-N			●	●				●	●	●		
CB22-M			●	●				●	●	●		
CB22-N			●	●				●	●	●		
CB24-M				●						●	●	
CB24-N				●						●	●	
CB28-M				●						●	●	
CB28-N				●						●	●	
CB32-M											●	●
CB32-N											●	●
CB36-M											●	●
CB36-N											●	●
CR40-N												●
KPT/KPSE DNDZ												
KPT08	●				●	●						
KPT10	●				●	●						
KPT12		●				●	●					
KPT14		●					●	●				
KPT16			●					●				
KPT18			●					●	●	●		
KPT20				●					●	●	●	
KPT22				●						●	●	●
KPT24				●						●	●	●
T=Trident TN=Trident Neptune												
T10	▲				▲	▲						
T12		▲				▲		▲				
T14		▲					▲	▲				
T16			▲				▲	▲	▲			
T18			▲	▲				▲	▲	▲		
T20				▲					▲	▲	▲	
T22				▲						▲	▲	▲
T24				▲						▲	▲	▲
TN16	▲				▲	▲						
TN24		▲				▲		▲				

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328

Right Angle Heat Shrink Boots



Right Angle Heat Shrink Boots are supplied in flame retardant polyolefin with an adhesive inner liner. A High Shrink Ratio version for sealing smaller wire bundles is also listed. The adhesive liner is heat activated and bonds to the underlying surface filling small voids. When cool, the adhesive forms a barrier against water, moisture, dirt, and other environmental contaminants. The lip on the connector end of the recovered boot fits into the sealing groove on the M and N style endbells used with CA/MS, CB, CR and KPT/KPSE connectors. Operating temperature is -67°F (-55°C) to +275°F (+135°C). These boots are also available in halogen free polyolefin, semi-rigid polyolefin, silicone, or Viton, with or without adhesive liner. Call for ordering information. [See page ACC 5](#) for Heat Shrink Gun.



(Note: Allow at least 20% recovery for proper liner adhesion)

CABLE O.D. INCHES												
MAX (expanded)	0.24	0.30	0.38	0.45	0.88	1.01	1.16	1.34	1.47	1.72	1.97	2.47
MIN	0.08	0.10	0.12	0.14	0.25	0.29	0.30	0.38	0.41	0.44	0.56	0.69
CABLE O.D. MM												
MAX	(6.0)	(7.5)	(9.6)	(11.4)	(22.3)	(25.6)	(29.5)	(34.0)	(37.3)	(43.7)	(50.0)	(62.7)
MIN	(2.0)	(2.5)	(3.0)	(3.6)	(6.3)	(7.4)	(7.6)	(9.6)	(10.4)	(11.1)	(14.2)	(17.5)
PART NUMBER →	RHSB1	RHSB2	RHSB3	RHSB4	RSB1	RSB2	RSB3	RSB4	RSB5	RSB6	RSB7	RSB8
CA-Bayonet N=N Endbell M=M Shielded Endbell												
CB10SL-M	●				●	●	●					
CB10SL-N	●				●	●						
CB12S-M		●			●	●	●					
CB12S-N	●				●	●						
CB14S-M		●			●	●	●	●				
CB14S-N		●			●	●	●					
CB16-M		●			●	●	●	●				
CB16-N		●			●	●	●					
CB16S-M		●			●	●	●	●				
CB16S-N		●			●	●	●	●				
CB18-M			●			●	●	●	●			
CB18-N			●			●	●	●				
CB20-M			●					●	●	●		
CB20-N			●					●	●	●		
CB22-M			●					●	●	●	●	
CB22-N			●					●	●	●	●	
CB24-M				●						●	●	
CB24-N				●						●	●	
CB28-M				●						●	●	●
CB28-N				●						●	●	●
CB32-M											●	●
CB32-N											●	●
CB36-M												●
CB36-N												●
CR40-N												■
KPT/KPSE DN/DZ												
KPT08	●				●	●						
KPT10	●				●	●	●					
KPT12		●				●	●	●				
KPT14		●				●	●	●				
KPT16			●					●	●			
KPT18			●					●	●	●		
KPT20				●					●			
KPT22				●						●	●	
KPT24				●						●	●	●
T=Trident TN=Trident Neptune												
T10	▲				▲	▲	▲					
T12		▲				▲	▲	▲				
T14		▲				▲	▲	▲				
T16			▲					▲	▲			
T18			▲					▲	▲	▲		
T20				▲					▲	▲	▲	
T22				▲					▲	▲	▲	
T24				▲						▲	▲	▲
TN16	▲				▲	▲						
TN24		▲				▲	▲	▲				

KPT/KPSE MIL-C-26482 Series 1 - VG 95 328



TG70 Strap Wrench

The Strap wrench is used to connect or disconnect coupling nuts in a confined space, or to tighten or loosen endbells without damaging the connector plating. A strap wrench also increases torque, allowing you to more easily mate or unmate a connector pair. Substitute tools, such as a pipe wrench or pliers, should never be used due to the high probability of severe damage to the connector plating or the coupling mechanism.



TG69P Non-Marring Adjustable Endbell Pliers For Field Service

The TG69P pliers have resilient jaws and are used to tighten or remove endbells without damaging the connector plating. The pliers are adjustable and will accommodate all of the connector sizes in this catalog. Substitute tools, such as a pipe wrench or metal jaw pliers, should never be used due to the high probability of severe damage to the connector plating.

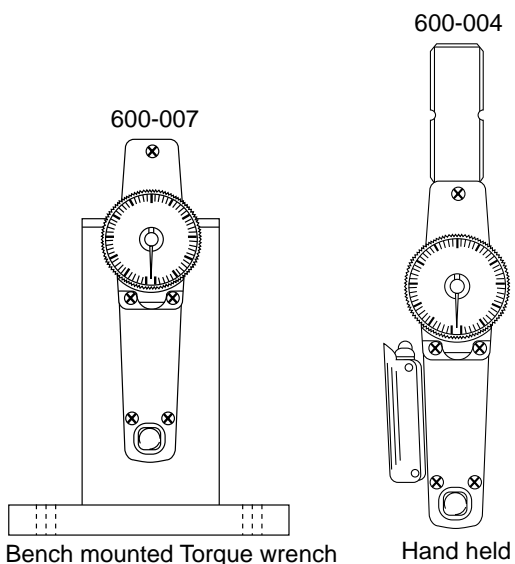
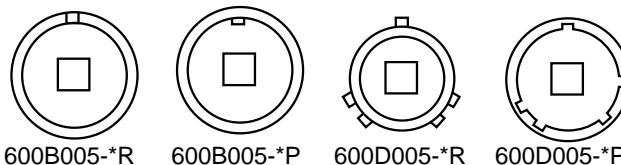


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600 Series Production System

The 600 series is a complete system for the proper assembly and torquing of connector endbells. The System includes a bench mounted or hand-held torque wrench, plug and receptacle holders, and a range of endbell tightening tools. When used together, these tools provide the user with consistent endbell installations. Each item is shipped with detailed assembly instructions.

Plug and receptacle holders

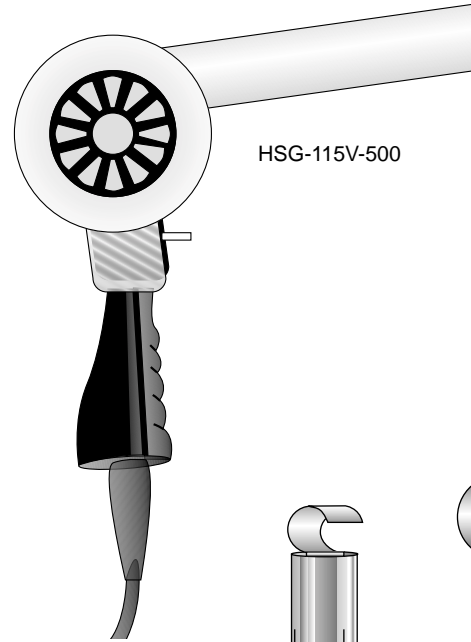


Size	MIL-C-5015 for MSE, F, B, R, CA, CB, CR		MIL-C-26482 for KPT, KPTSE, PV, MS311, MS347	
	Receptacles	Plugs	Receptacles	Plugs
8/8S	600B005-8R	600B005-8P	600D005-8R	600D005-8P
10S/SL	600B005-10R	600B005-10P	600D005-10R	600D005-10P
12/12S	600B005-12R	600B005-12P	600D005-12R	600D005-12P
14/14S	600B005-14R	600B005-14P	600D005-14R	600D005-14P
16/16S	600B005-16R	600B005-16P	600D005-16R	600D005-16P
18	600B005-18R	600B005-18P	600D005-18R	600D005-18P
20	600B005-20R	600B005-20P	600D005-20R	600D005-20P
22	600B005-22R	600B005-22P	600D005-22R	600D005-22P
24	600B005-24R	600B005-24P	600D005-24R	600D005-24P
28	600B005-28R	600B005-28P	-	-
32	600B005-32R	600B005-32P	-	-
36	600B005-36R	600B005-36P	-	-

Size	MIL-C-38999 Series I for KJL		MIL-C-38999 Series II for KJ		MIL-C-38999 Series III for KJA			
	Receptacles	Plugs	Receptacles	Plugs	Shell Size	Receptacles	Plugs	
9	600F005-9R	600F005-9P	600FF005-9R	600FF005-9P	A	9	600H005-9R#	600H005-9P#
11	600F005-11R	600F005-11P	600FF005-11R	600FF005-11P	B	11	600H005-11R#	600H005-11P#
13	600F005-13R	600F005-13P	600FF005-13R	600FF005-13P	C	13	600H005-13R#	600H005-13P#
15	600F005-15R	600F005-15P	600FF005-15R	600FF005-15P	D	15	600H005-15R#	600H005-15P#
17	600F005-17R	600F005-17P	600FF005-17R	600FF005-17P	E	17	600H005-17R#	600H005-17P#
19	600F005-19R	600F005-19P	600FF005-19R	600FF005-19P	F	19	600H005-19R#	600H005-19P#
21	600F005-21R	600F005-21P	600FF005-21R	600FF005-21P	G	21	600H005-21R#	600H005-21P#
23	600F005-23R	600F005-23P	600FF005-23R	600FF005-23P	H	23	600H005-23R#	600H005-23P#
25	600F005-25R	600F005-25P	600FF005-25R	600FF005-25P	J	25	600H005-25R#	600H005-25P#

Add polarizations: N, A, B, C, D, E

The Panduit HSG-115V-500 heat gun is a general purpose tool designed for all types of heat shrink boots and tubing. The air intake adjustment varies the temperature from 500°F (260°C) to 650°F (344°C). The unit operates on 115 Vac at 11 amps. The tool comes with an adjustable stand and a neoprene AC cord. The bearings, brushes, and heating element are replaceable.

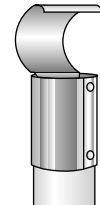


HSG-115V-500

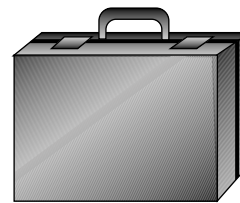
PART NUMBER	DESCRIPTION
HEAT TOOLS	
HSG-115V-500	<ul style="list-style-type: none"> • General purpose tool - For use on all types of heat shrink tubing and boots • Air intake regulator varies temperature from 500°F (260°C) to 650°F (344°C) 115 Volt, 11 AMP. • Neoprene jacketed cord with molded strain relief • Adjustable stand included. • Replaceable bearings, brushes and heating elements.
ACCESSORIES	
HSG-A1	<ul style="list-style-type: none"> • Deflector tube. • Directs heat around the tubing to reduce shrink time. • For tubing up to 3/4" diameter.
HSG-A2	<ul style="list-style-type: none"> • Deflector tube for tubing up to 1-1/2" diameter.
HSG-A3	<ul style="list-style-type: none"> • Concentrator tube to direct heat toward tubing and away from heat sensitive components.
HSG-A4	<ul style="list-style-type: none"> • Black polyethylene carrying case. • Stores gun, stand, and all three accessories.



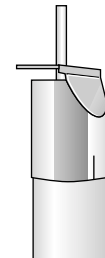
HSG-A1



HSG-A2



HSG-A4

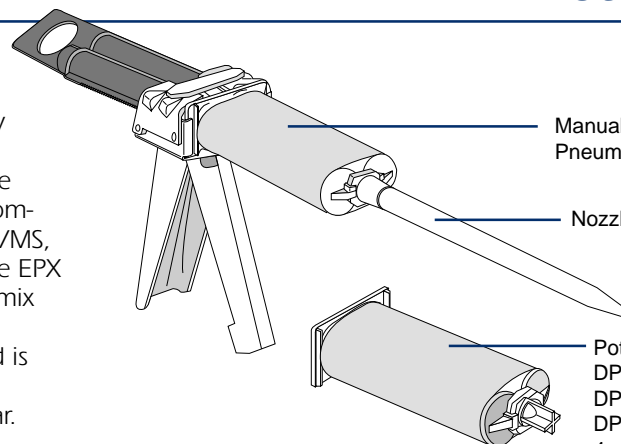


HSG-A3

3M

Potting System

3M Scotch-Weld™ EPX Potting Systems consists of a self leveling Duo-Pak epoxy potting compound cartridge, an EPX applicator, and an EPX nozzle for precise mixing. 3M's two part epoxy potting compound is for use with the KPT, KPSE, CAVMS, CB, and CR series "P" style endbells. The EPX system provides an easy way to meter, mix and dispense potting compound. 3M's non-corrosive epoxy potting compound is specially formulated for electronic applications. Available in Black and Clear.



Manual Gun: EPX-Applicator (shown)
Pneumatic Gun: EAS50P

Nozzle: EPX-NOZZLE

Potting Compound
DP270-BLACK
DP270-CLEAR
DP100 PLUS-CLEAR
4-minute work life; Rapid setup for automotive applications

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Sure-Seal® — Small, low cost, and reliable.

Clip Lock Circular — User friendly and built to last.

Slide Lock Circular — Easy to assemble and maintain.

Slide Lock Environmental — Designed for demanding, under-the-hood applications.

APD — Rugged, high performance connectors at a low-total applied cost.

Trident Ringlock, Trident Neptune, and Trident Neptune Metal — Small, low cost, and reliable.

Standard-K — Lightweight, reliable, and economical.

CA/MS-E/F/R — Standard MS Circular to MIL-C-5015.

CA-Bayonet — Rugged with a quick-mating bayonet lock.

KPT/KPSE — High-density contact arrangements in a miniature circular metal shell.

PV — Designed for use in demanding, high-reliability environments.

KJL — High density contact arrangements in a miniature shell.

KJ — High-density contact arrangements in a low-profile, miniature circular shell.

KJA — High-density contact arrangements in a miniature circular shell.

MIKQ — Rugged, lightweight connector offering high performance in a small package.

MIKM — Rugged, lightweight connector in a small package.

MDSM — High-density, shielded connectors for today's commercial industry.

MDM — High strength and lightweight with an extremely small interconnect.

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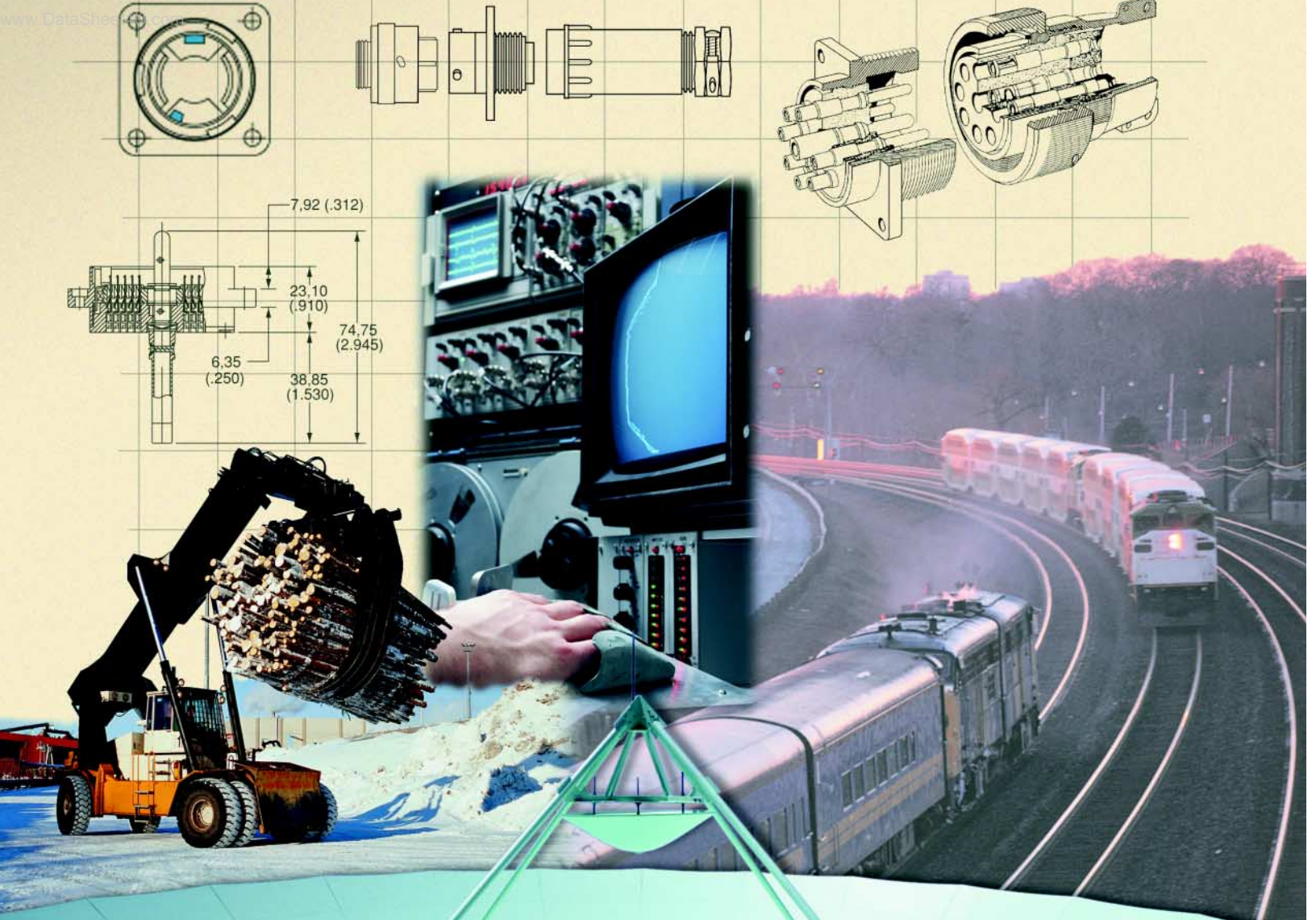
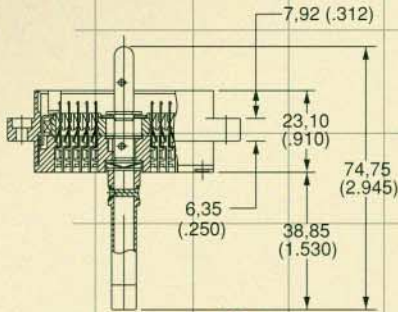
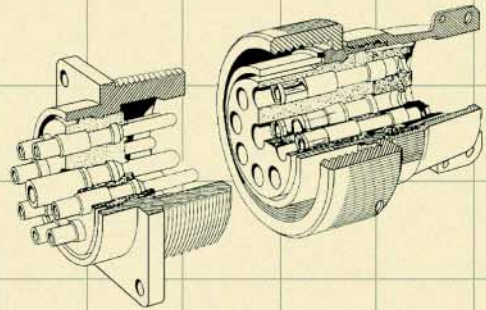
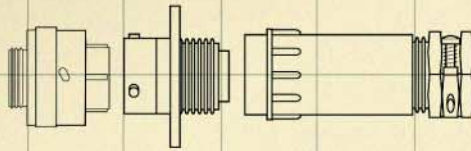
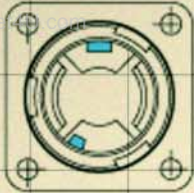
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for Commercial, Industrial, Harsh Environment and Military Applications

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