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Amphenol[®]



PT SeriesMiniature Cylindrical Connectors
12-070-17

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Proprietary/MIL-DTL-26482 Series 1 connectors covered in this catalog are widely used in general duty and environmental applications, both industrial and military.

Markets that use this family of connectors include:

- Instrumentation
- Monitoring Equipment
- · Machine Tool, Factory Automation
- Communications
- · Geophysical
- · Industrial Controls and Robotics
- · Oil and Petrochemical Industries
- · Rail/Mass Transit
- Military/Aerospace

If more information is needed concerning the connectors covered in this publication, or if there are special application needs, please contact:

Amphenol Corporation Amphenol Industrial Operations

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Fax: 520-397-7169

Please go to the Amphenol websites to view, download and save this catalog and most all of Amphenol interconnection product literature.

www.amphenol-industrial.com

Some miniature connector styles are available in RoHS Compliant versions. Please contact Amphenol Industrial Operations for more information.



Amphenol operates Quality Systems that are certified to ISO9001: 2008 by third party registrars.

NOTE:

The connector products in this brochure were formerly known as Bendix® products. These products are now manufactured and sold under the Amphenol® brand name. The name "Amphenol" will replace the name "Bendix" on products and literature in the future.

NOTE

The Miniature MIL-DTL-26482, Series 2 connectors PTS-DR and MS/PTS-DR (formerly in this catalog) are no longer supplied with these designations. Amphenol now supplies the Amphenol®/Matrix® MIL-DTL-26482, Series 2. (Military numbers include MS3470 - MS3472, MS3474, - MS3476).

Amphenol® Miniature Cylindrical Connectors

Proprietary/MIL-DTL-26482, Series 1

Amphenol® Miniature Cylindrical connectors offer twice the number of contacts in just half the size of a Standard connector. These miniature connectors, are available in several series, each with varying design characteristics and customer options to meet cost considerations and provide maximum design flexibility. There are two styles within the family that are MS approved and qualified to MIL-DTL-26482, Series 1, and in addition there are several proprietary styles.

Common features of all styles:

- All are for general duty applications and environmental sealing is achieved with the grommet and clamp design.
- Operating temperature is from -55°C to +125°; Operating voltage to 1000 VAC (RMS) at sea level.
- Pin and socket contacts are machined from low loss copper alloy and gold plated to eliminate contact corrosion and provide an indefinite shelf life.
- · All have resilient inserts which provide high dielectric strength and moisture barrier.
- A variety of shell finishes (including non-cadmium) and a variety of backend accessories are available within the styles.



PT Solder jam nut receptacle and mated straight plug

Bayonet Coupling with Solder Contact Termination

PT, MS/PT (solder)

- · MS and proprietary versions
- · Factory installed solder contacts
- · 3 point bayonet coupling and 5 key/keyway mating.
- · Intermateable with all miniature series connectors.
- MS/PT meets MIL-DTL-26482 Series 1, service classes E, F and P.
- MS/PT is UL recognized.

SP (solder) • SP Serie

 SP Series is a modification of the PT with same features except a wider flange for back panel mounting

Options

- · 7 shell styles with 60 insert patterns
- Hermetic seal (glass fusion) receptacle styles available
- Pressurized thru bulkhead receptacle style available
- Pre-installed coax solder contacts are available
- Printed circuit board contacts are available



PT Solder wall mount receptacle

Bayonet Coupling with Crimp Contact Termination

PT-SE, MS/PT-SE (crimp)MS and proprietary versions

- Crimp rear insertable/front release contact termination. (closed entry socket insert prevents probe damage).
- · 3 point bayonet coupling and 5 key/keyway mating.
- · Intermateable with all miniature series connectors.
- MS/PT-SE meets MIL-DTL-26482 Series 1, service classes E, F, P.

SP-SE (crimp)

Modification of the PT-SE with wider flange for back panel mounting

Options

- 6 shell styles with 47 insert patterns
- Coax and thermocouple contacts are available



PT-SE Crimp wall mount receptacle and mated straight plug

design flexibility

The large family of miniature proprietary and MS style connectors provides for many optional features and designs. In addition to the choices of bayonet or threaded shells, solder or crimp termination within the style variations, there are additional options that are shown here.

Hermetics

Hermetically sealed receptacles have fused compression glass sealed inserts which provide envionrmental moisture sealing. There are three hermetic styles within the PT bayonet series.

Coaxial Contacts

Amphenol Miniature connectors can incorporate shielded coax contacts. Size 8 and 12 crimp coax contacts are available in PT-SE, SP-SE, MS/PT-SE. Factory installed size 8 and 12 solder type coax contacts are available in PT, SP,MS/PT connectors. See coax contact information pages at the end of this catalog.



PT Connector with Hermetic Seal Insert and Coax Contacts



PT Connector with PC Tail
Contacts

Printed Circuit Board Tail Contacts

PT bayonet connectors in box mounting receptacle and jam nut receptacle styles are available with printed circuit board contacts. Standard PCB tails for MIL-DTL-26482 connectors have gold plating, .0050 inches over nickel. See page 20 and call Amphenol for further information.

Flex Circuitry

Flex termination assemblies for attaching cylindrical connectors to printed circuit boards are available through the Amphenol division ACT, Advanced Circuit Technology. Flex can be used with miniature 26482 connectors and it can be designed to meet specific length, current carrying capacity and to fit the precise geometric shape of the connector to board package. Flex circuity plugs into a printed circuit board and creates a self-locking terminal pad which eliminates the need for an additional interconnect to the PCB.

Filter Protection

Amphenol offers the FPT Series which combines the miniature PT series with an EMI filter. Designed to provide EMI protection for sensitive circuits, each circuit is individually filtered within the connector, eliminating the need for costly and bulky exterior network filters. Filter contacts are available in MF, HF, VHF, and UHF ranges and are intermateable and intermountable with MIL-DTL-26482 connectors. For further information see catalog 12-120, Amphenol EMI Filter Transient Protection Connectors.

Overmolded Cable

Overmold seals and cables can be designed for almost any industrial application. A variety of materials are available: neoprene, hypalon and others; and a variety of lengths can be designed to meet customer specifications. Overmold seals to the rear of the connector and to the cable jacket providing moisture sealing.



PT Connector with Flex



PT Connector with EMI Filter Protection



PT Connector with Overmolded Cable

connector selection guide

The accompanying chart is provided to assist the user in selecting the appropriate type of miniature connector to meet the application requirements. Further information can be found in specific sections of this catalog.

			Solder		Cri	mp
CHARACTERISTICS		PT	MS/PT	SP	MS/ PT-SE	PT-SE
Intermateable†		0	0	0	0	0
Contacts	Solder	•	•	•		
	Crimp RI/FR					•
Contact Retention	Non-Removable	•	•	•		
System	Removable				•	
Coupling	Bayonet	•	•	•	•	
Standard Finishes††	Olive Drab Cadmium (003)	•				
	Anodic Coated (005)			•		
Temperature Range	Resilient Dielectric (–55°C to +125°C)	•		•		
Wide Mounting Flange				•		
Hermetic Seal		•	•	•		
SHELL STYLE AVAILAE	BILITY					
Wall Mounting Recepta	cle "00"		•	•		**•
Cable Connecting Rece	eptacle "01" ***	•	•		•	•
Box Mounting Recepta	cle "02"	*•	•	•	•	**•
Straight Plug "06"		•		•	•	•
Jam Nut Receptacle "0"	7"	*•	*•	•		
Thru-bulkhead Recepta	acle "TB"	•		•		
Solder Mount Receptad	cle "l"	*•	*•			
90° Plug "08"				•		•

RI/FR = Rear Insertion/Front Releasable

- † o intermates with o
- †† Optional finishes available. See "how to order" sections.
- * Available in hermetic version
- ** Dual mounting holes
- *** This connector style is sometimes referred to as a cable connecting "plug." It does, however, mate with either a straight or 90 degree plug.

insert availability

		Contact Size										
										Co	рах	
Insert Arrangement	MS/PT	PT	SP			Total Contacts	20	16	12	12	8	Service Rating
6-1		Х	Х	X*		1	1					ı
8-2	Х	Х	Х	Х		2	2					ı
8-3	Х	Х	Х	Х		3	3					ı
8-4	Х	Х	Х	Х		4	4					ı
8-33	Х	Х	Х	Х	Х	3	3					ı
8-98		Х	Х			3	3					ı
10-2		Х	Х			2		2				I
10-5		Х	Х	X*		5	5					ı
10-6	Х	Х	Х	Х	Х	6	6					ı
10-70		Х	Х			1					1	Coax
10-98	Х	Х	Х	X*		6	6					I
12-3	Х	Х	Х	Х	Х	3		3				П
12-4		Х	Х	X*		4		4				I
12-8	Х	Х	Х	X*	Х	8	8					I
12-10	Х	Х	Х	Х	X	10	10					I
12-14		Х	Х			14	14					ı
12-98		Х	Х			10	10					ı
14-2		Х	Х			2				2		II
14-4		S	S	Х		4			4			I
14-5	Х	Х	Х	Х	Х	5		5				II
14-8		Х	Х			8	6		2			I
14-12	Х	Х	Х	Х	Х	12	8	4				I
14-15	Х	Х	Х	Х	Х	15	14	1				I
14-18	Х	Х	Х	X*	Х	18	18					I
14-19	Х	Х	Х	Х	Х	19	19					I
14-22					X*	5	1		4			I
14-71		Р	Х			4		3			1	1
14-91 HV		S	Х		X*	3	3					**
14-AA		Х	Х	Х		4			4			I
16-8	Х	Х	Х	Х	Х	8		8				II
16-23	Х	Х	Х		Х	23	22	1				I
16-26	Х	Х	Х	Х	Х	26	26					I
16-70		Х	Х			15	14			1		N/A
16-76†††					X*	14	8		1	5		***
16-99	Х	Х	Х		Х	23	21	2				I
18-5		Х	Х		X*	5			5			II
18-8						8			8			I
18-11	Х	Х	Х	Х	Х	11		11				II
18-30	Х	Х	Х	X*	Х	30	29	1				I

^{*}Not available in MS version

P designates Pin insert only. †Size 12 contacts for #10 wire †Not presently tooled ††Contacts must be ordered separately

^{**}Flashover voltage 5,000 VAC (RMS)
***1500 VAC (RMS)

S designates Socket insert only.

insert availability, cont.

		Solder	Terminat	ion	Crimp Termination				Со	ntact S	Size	1
										Co	ах	
Insert Arrangement	MS/PT	PT	SP	Hermetic PT MS-PT	MS/PT-SE PT-SE SP-SE	Total Contacts	20	16	12	12	8	Service Rating
18-32	Х	Х	Х	Х	X	32	32					1
18-71					X*	9		8			1	Coax, II
18-72		Х	Х			14	10			4		N/A
18-75		Х	Х			4					4	Coax
18-76						4				3	1	II
18-80		Х	Х			8	6				2	Coax, I
18-91 HV					X*	6	6					**
20-16	Х	Х	Х	Х	X	16		16				II
20-24	Х	Х	Х			24	24					I
20-25		Х	Х			25	25					I
20-26		Х	Х			26	20		6			I
20-27	Х	Х	Х			27	27					1
20-39	Х	Х	Х	Х	Х	39	37	2				I
20-41	Х	Х	Х	Х	Х	41	41					I
20-70						14	10				4	Coax
20-90 HV		Х	Х			7	7					Hi-Voltage
22-7		Х	Х		X*	7					7	Coax
22-21	Х	Х	Х	Х	Х	21		21				II
22-25					X*	25		25				I
22-32	Х	Х	Х		Х	32	32					I
22-34		Х	Х			34	34					I
22-36		Х	Х			36	36					I
22-41	Х	Х	Х	Х	Х	41	27	14				I
22-55	Х	Х	Х	Х	Х	55	55					I
22-70		Х	Х			19	13				6	I, Coax
22-71						9	2				7	I, Coax
22-72		Х	Х			19	12	4			3	N/A
22-78†††					X*	7					7	Coax
22-96					X*	7			7†			II
24-31		Х	Х			31		31				I
24-51					X*	51	47	İ		4		I
24-61	Х	Х	Х	Х	X	61	61	İ		İ		ı
24-71		Х	Х			49	45	2			2	N/A
24-79						6	1				5	Coax

^{*}Not available in MS version

^{**}Flashover voltage 5,000 VAC (RMS)
***1500 VAC (RMS)

[†]Size 12 contacts for #10 wire ††Not presently tooled †††Contacts must be ordered separately

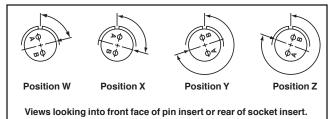
alternate positioning

Alternate Positioning

To avoid cross-plugging problems in applications requiring the use of more than one miniature cylindrical connector of the same size and arrangement, alternate insert rotations are available as indicated in the accompanying chart.

As shown in the diagram at right, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counterclockwise the same number of degrees in respect to the normal shell key.

		Insert Rota	tion		
		Inscrincia		rees	
Shell Size	Insert Arrangement	w	Х	Y	z
6	6-1	_	_	_	_
8	8-2*	58	122	_	_
8	8-3	60	210	_	_
8	8-4*	45	97	184	_
8	8-33*	90	_	_	_
8	8-98	_	_	_	_
10	10-2	45	90	315	_
10	10-5*	45	151	180	270
10	10-6*	90	_	_	_
10	10-70	_	_	1	_
10	10-98*	90	180	240	270
12	12-3*	_	_	180	_
12	12-4*	38	_	-	_
12	12-8	90	112	203	292
12	12-10*	60	155	270	295
12	12-14	_	_	-	_
12	12-98*	61	135	189	340
14	14-2	58	122	_	_
14	14-4*	45	_	_	_
14	14-5*	40	92	184	273
14	14-8	48	162	189	312
14	14-12*	43	90	_	_
14	14-15*	17	110	155	234
14	14-18*	15	90	180	270
14	14-19*	30	165	315	_
14	14-22	45	_	-	_
14	14-71	_	_	_	-
14	14-91HV	_	60	-	_
14	14-AA*	45	_	_	_
16	16-8*	54	152	180	331
16	16-23	158	270	_	_
16	16-26*	60	_	275	338
16	16-70	41	122	216	286
16	16-76	_	_	_	_
16	16-99*	66	156	223	340
18	18-5	55	97	263	315
18	18-8	180	_	ı	_



		Insert Rota	ition		
Chall	Import		Deg	rees	
Shell Size	Insert Arrangement	w	Х	Υ	Z
18	18-11*	62	119	241	340
18	18-30*	180	193	285	350
18	18-32*	85	138	222	265
18	18-71	18	108	127	215
18	18-72	53	102	213	293
18	18-75	45	_	_	_
18	18-76	_	_	_	_
18	18-80	45	90	135	160
18	18-91HV	90	180	240	270
20	20-16*	238	318	333	347
20	20-24	70	145	215	290
20	20-25	72	144	216	288
20	20-26	13	107	210	322
20	20-27	72	144	216	288
20	20-39*	63	144	252	333
20	20-41*	45	126	225	_
20	20-70	63	135	222	335
20	20-90	45	135	225	315
22	22-7	19	41	_	_
22	22-21*	16	135	175	349
22	22-25	60	125	211	336
22	22-32	72	145	215	288
22	22-34	62	142	218	298
22	22-36	72	144	216	288
22	22-41	39	135	264	_
22	22-55*	30	142	226	314
22	22-70	30	82	218	312
22	22-71	33	191	236	270
22	22-72	42	200	277	339
22	22-78	19	41	_	
22	22-96*	19	41	_	_
24	24-31	90	225	255	
24	24-51	22	171	313	_
24	24-61*	90	180	270	324
24	24-71	39	131	205	281
24	24-79	_			_

^{*} Available in Hermetic Class

insert arrangements

front face of pin inserts illustrated

Service Rating Number of Contacts

Contact Size

20 16

20 16

	\odot		O BO		OA OB B	(CO)	B A
Insert Arrangement Service Rating Number of Contacts Contact Size	6-1 I 1 20	8-2 I 2 20	8-3 I 3 20	8-4 I 4 20	8-33 I 3 20	8-98 I 3 20	10-2 I 2 16
	EO OA DO COB				C ● A B		
Insert Arrangement Service Rating Number of Contacts Contact Size	10-5 I 5 20	10-6 I 6 20	10-70 Coax 1 8 Coax	10-98 I 6 20	12-3 II 3 16	12-4 I 4 16	12-8 I 8 20
		10 0 0 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0	OG O OG OG OF OF OF OF	(• •)			A O O B C C C C C C C C C C C C C C C C C
Insert Arrangement Service Rating Number of Contacts Contact Size	12-10 I 10 20	12-14 I 14 20	12-98 I 10 20	14-2 II 2 12	14-4 I 4 12	14-5 II 5 16	14-8 I 6 2 20 12
		(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		O ^D O ^A O _B	(A) (C) (D) (C) (D)
Insert Arrangement Service Rating	14-12 I	14-15 I	14-18 I	14-19 I	14-22 I	14-71 I	14-91HV Flashover 5,000 VAC (RMS)

20

19

20

20 12

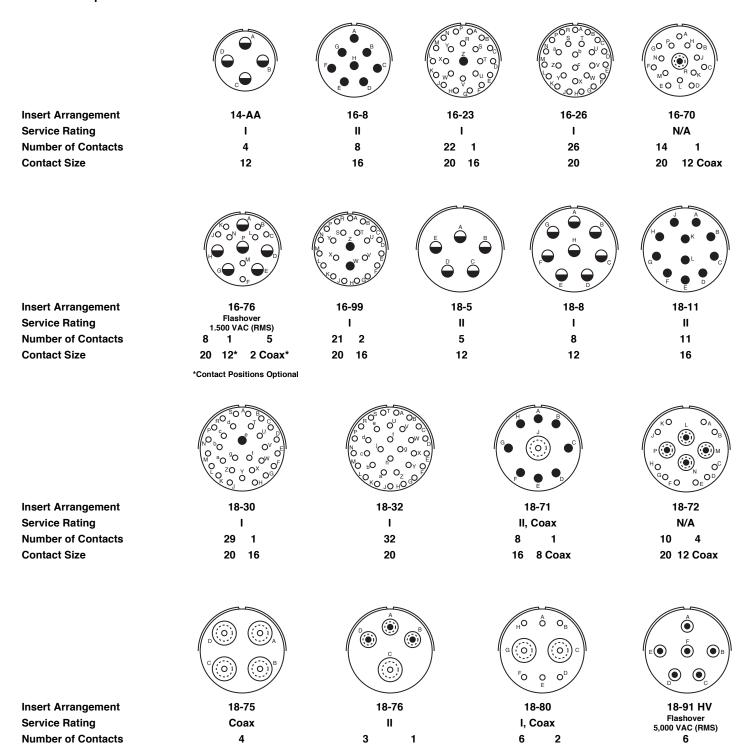
16 8 Coax

20

insert arrangements

front face of pin inserts illustrated

Contact Size



8 Coax

12 Coax 8 Coax

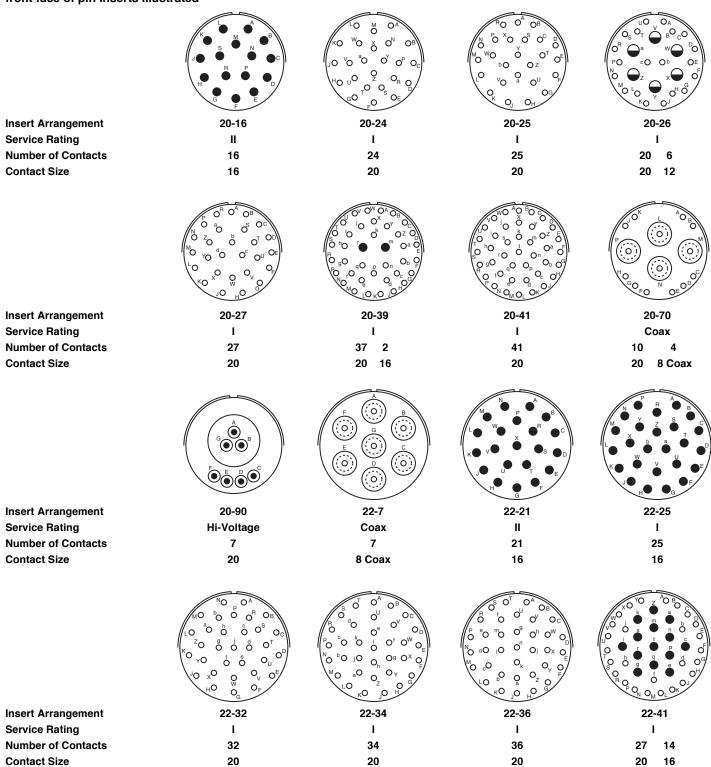
20

8 Coax

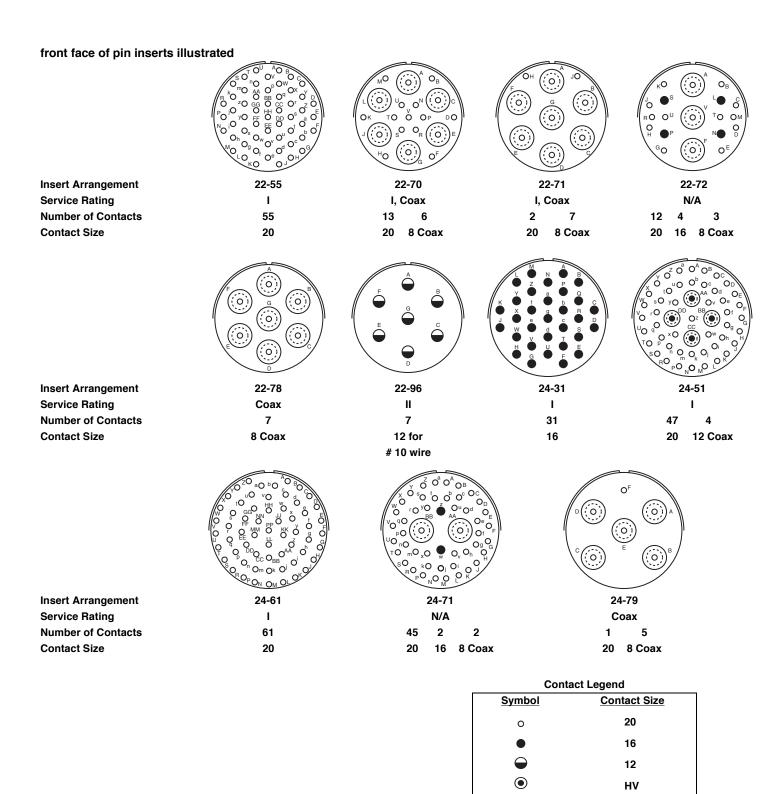
20

insert arrangements

front face of pin inserts illustrated



insert arrangements



12 Coax 8 Coax

Amphenol® PT, SP, MS/PT

Proprietary/MIL-DTL-26482, Series 1 bayonet coupling and solder termination

wall mounting receptacle



cable connecting receptacle*



box mounting receptacle



straight plug



jam nut receptacle



thru bulkhead receptacle



Amphenol® solder contact miniature cylindrical connectors meet the most critical application needs. Design versatility combined with high reliability performance makes these series of Miniature Cylindrical Connectors ideal for environmental sealing or pressurized applications.

The MS/PT Series is qualified to MIL-DTL-26482, Series 1 and has all the outstanding design characteristics and quality of the PT Series. The SP Series is a modification of the PT, providing special shells with a wide mounting flange for back panel mounting.

A corrosion resistant electrically conductive finish of cadmium plate with an olive drab chromate after-treatment is used on the PT and MS/PT. The SP is given a durable non-conductive hard anodic "Alumilite" coating which provides abrasion protection and resistance to corrosion.

NEW 500 hour corrosion resistance, RoHS compliant harsh environment conductive plating. Gray Zinc over an Electroless Nickel (Gray ZnNi) base, with a Light Gun Metal Gray appearance.

Shell components for these series are aluminum. The dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating with no chance of cross plugging. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical isolation of the contact in the insert.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design. A breakaway style plug is available in the PT solder series. Hermetics receptacles are available in PT and MS/PT solder series. Receptacles with printed circuit board contacts are also available.

PT Solder is UL recognized under file #E115497, Vol. 1, Sec. 5.

The PT, SP and MS/PT Series are intermateable and intermountable with all existing Miniature Cylindrical Series connectors.

Refer to pages 4-10 for insert arrangement availability.

PT, SP, MS/PT

Table 1: CONTACT DATA/CONNECTOR RATINGS

	avi	e I. CONTAC	I DAIA/CC	INI	IECIO	n nai i	IACI.	3
		Cor	ntact Specific	catio	ons			
Contact Size		Test Current	Maximum Millivolt Dro		Solde Diam		S	older Well Depth
20		7.5	55		.040	+.004 000	.1	25 +.031 000
16		13.0	50		.070	+.005 003	.1	88 +.031 000
12		23.0	42		11b	+.004 002	.1	88 +.031 000
			Service Rat	ing				
	R	ecommended	Tes	t Vo	Itage A0	C (RMS),	60 d	cps
Service Rating		Operating AC Voltage at Sea Level	Sea Level	5	0,000 ft.	70,00 ft.	0	110,000 ft.
I		600	1,500		500	375		200

2,300

750

500

200

1,000

[†] Silver plated wire per MIL-DTL-26482

This connector style is sometimes referred to as a cable connecting "plug." It does, however, mate with a straight or 90 degree plug.

PT, SP Service Classes

PT and SP connectors are available in the service classes listed below. Each class, with the exception of hermetic, offers one or more means of terminating or supporting a cable or wire bundle.

- "A" General duty; back shell is threaded for conduit attachment of MS3057 cable clamp
- "A" (SR) General duty, with strain relief clamp for cable or wire bundle support
- "C" Pressurized receptacle; less than 1 cu. in. per hour leakage at 30 psi over a temperature range of -65°F to +257°F
- "E" Environmental resistant connectors supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires
- "E" (SR) Environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support
- "P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring
- "P" (SR) Strain relief clamp suitable for retaining customer applied potting compounds, with provision for wire support
- "PG" Compressing cable gland for moisture proofing jacketed cables.
- "H"* Hermetically sealed with compression glass inserts (see pages 22-25)

Style with printed circuit board contacts- see page 20.

MS/PT Service Classes

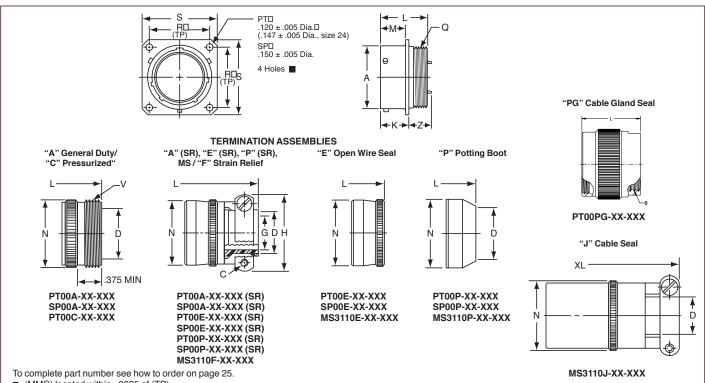
The MS/PT Miniature connector is available in the following certified service classes:

- "E" Environmental resistant connectors supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires
- "F" Grommet seal with strain relief clamp
- "J" Compressing clamp and neoprene gland for moisture proofing multi-conductor jacketed cable and strain relief. Telescoping sleeves (MS 3420A) can be used to adapt to cables smaller than minimum close-down.
- "P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring



PT00 (MS3110) **SP00**

wall mounting receptacle



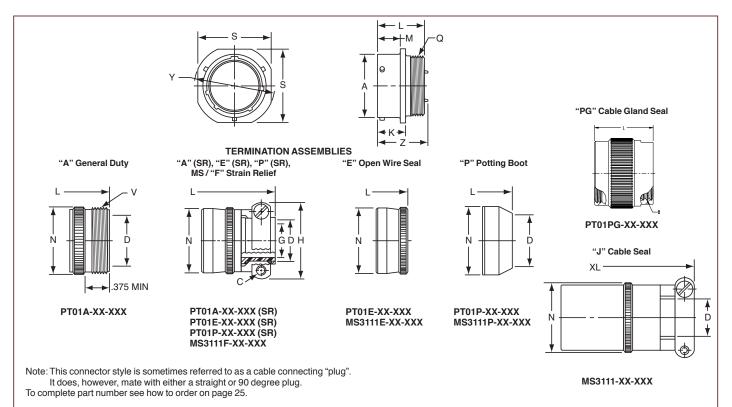
■ (MMC) located within .0025 of (TP)

	Rec	eptacle	Front \	/iew				Re	eceptac	le Side	View				C	lass "A'	', "C"
Shell	F (T	P)	Ma	S ax.	A +.001		.020 .010	L		.010 .000	Q Thread	Z	ıx.	D	L	N	V Thread
Size	PT	SP	PT	SP	005	PT	SP	Max.	PT	SP	Class 2A	PT	SP	Min.	Max.	Max.	Class A
6	.469	.641	.688	.953	.348	.493	.524	.906	.431	.462	.3125-32 NEF	.468	.438	.175	1.553	.462	.3750-32 NEF
8	.594	.734	.812	1.047	.473	.493	.524	.906	.431	.462	.4375-28 UNEF	.468	.438	.297	1.553	.590	.5000-28 UNEF
10	.719	.812	.938	1.125	.590	.493	.524	.906	.431	.462	.5625-24 NEF	.468	.438	.421	1.553	.717	.6250-24 NEF
12	.812	.938	1.031	1.250	.750	.493	.524	.906	.431	.462	.6875-24 NEF	.468	.438	.546	1.553	.834	.7500-20 UNEF
14	.906	1.031	1.125	1.344	.875	.493	.524	.906	.431	.462	.8125-20 UNEF	.468	.438	.663	1.553	.970	.8750-20 UNEF
16	.969	1.125	1.219	1.438	1.000	.493	.524	.906	.431	.462	.9375-20 UNEF	.468	.438	.787	1.553	1.088	1.0000-20 UNEF
18	1.062	1.203	1.312	1.516	1.125	.493	.524	.906	.431	.462	1.0625-18 NEF	.531	.438	.879	1.553	1.216	1.1875-18 NEF
20	1.156	1.297	1.438	1.672	1.250	.650	.650	1.125	.556	56 .556 1.1875-18 NEF		.531	.531	1.014	1.703	1.332	1.1875-18 NEF
22	1.250	1.375	1.562	1.750	1.375	.650	.650	1.125	.556	.556 .556 1.3125-181		.531	.531	1.134	1.703	1.460	1.4375-18 NEF
24	1.375	1.500	1.688	1.875	1.500	.683	.683	1.188	.589	.589 .589 1.4375-18 NEF		.498	.498	1.259	1.765	1.585	1.4375-18 NEF

	Class	"A" (SF	R), "E" (SR), "P"	(SR), M	S/"F"	Class "E"	, MS/"E"	Class	"P", MS	S/"P"		Clas	s "J"		Class "Po	G"
Shell	С	D	G	Н	L	N	L	N	D	L	N)	N	XL	В	L
Size	Thread	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Closed	Free	Max.	Max.	Thread	Max.
6	_	_	_	_	_	_	1.266	.440	.192	1.438	.484	_	_	_	_	_	_
8	6-32	.240	.125	.812	1.922	.550	1.266	.560	.317	1.438	.608	.168	.230	.547	2.271	M12x1.5-6H	.936
10	6-32	.302	.188	.875	1.922	.675	1.266	.685	.434	1.438	.734	.205	.312	.675	2.271	M16x1.5-6H	.936
12	6-32	.428	.312	1.000	1.922	.803	1.266	.813	.548	1.438	.858	.338	.442	.812	2.411	M16x1.5-6H	.936
14	6-32	.552	.375	1.125	1.922	.920	1.266	.930	.673	1.438	.984	.416	.539	.940	2.599	M18x1.5-6H	.936
16	6-32	.615	.500	1.188	2.047	1.047	1.266	1.057	.798	1.438	1.110	.550	.616	1.067	2.943	M22x1.5-6H	.936
18	8-32	.740	.625	1.438	2.078	1.165	1.266	1.175	.899	1.438	1.234	.600	.672	1.194	3.172	M25x1.5-6H	.936
20	8-32	.740	.625	1.438	2.344	1.290	1.516	1.301	1.024	1.656	1.360	.635	.747	1.322	3.610	M25x1.5-6H	1.180
22	8-32	.928	.750	1.625	2.344	1.418	1.516	1.430	1.149	1.656	1.484	.670	.846	1.449	3.766	M32x1.5-6H	1.180
24	8-32	.990	.800	1.719	2.406	1.543	1.578	1.555	1.274	1.717	1.610	.740	.894	1.576	3.985	M32x1.5-6H	1.180

PT01 (MS3111)

cable connecting receptacle

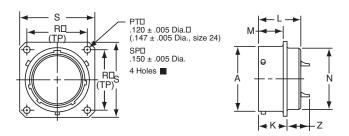


	Recept. F	ront View			Recep	tacle Side	View				Class "A",	
Shell Size	S ±.020	Y ±.020	A +.001 005	+.020 010	L Max.	M +.016 000	Q Thread Class 2A	Z Max.	D Min.	L Max.	N Max.	V Thread Class A
6	.688	.812	.348	.494	.906	.400	.3125-32 NEF	.948	.175	1.553	.462	.3750-32 NEF
8	.812	.938	.473	.494	.906	.400	.4375-28 UNEF	.948	.297	1.553	.590	.5000-28 UNEF
10	.938	1.062	.590	.494	.906	.400	.5625-24 NEF	.948	.421	1.553	.717	.6250-24 NEF
12	1.031	1.156	.750	.494	.906	.400	.6875-24 NEF	.948	.546	1.553	.834	.7500-20 UNEF
14	1.125	1.250	.875	.494	.906	.400	.8125-20 UNEF	.948	.663	1.553	.970	.8750-20 UNEF
16	1.219	1.344	1.000	.494	.906	.400	.9375-20 UNEF	.948	.787	1.553	1.088	1.0000-20 UNEF
18	1.312	1.438	1.125	.494	.906	.400	1.0625-18 NEF	.948	.879	1.553	1.216	1.1875-18 NEF
20	1.438	1.562	1.250	.650	1.125	.535	1.1875-18 NEF	1.166	1.041	1.703	1.332	1.1875-18 NEF
22	1.562	1.688	1.375	.650	1.125	.535	1.3125-18 NEF	1.166	1.135	1.703	1.460	1.4375-18 NEF
24	1.688	1.812	1.500	.683	1.188	.568	1.4375-18 NEF	1.166	1.259	1.765	1.585	1.4375-18 NEF

	Class	"A" (SF	R), "E" (SR), "P"	(SR), M	S/"F"	Class "E"	, MS/"E"	Class	"P", MS	6/"P"		Clas	s "J"		Class "Po	G"
Shell	С	D	G	Н	L	N	L	N	D	L	N	D)	N	XL	В	L
Size	Thread	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Closed	Free	Max.	Max.	Thread	Max.
6	_	_	_	_	_	_	1.266	.440	.192	1.438	.484	_	_	_	_	_	-
8	6-32	.240	.125	.812	1.922	.550	1.266	.560	.317	1.438	.608	.168	.230	.547	2.271	M12x1.5-6H	.936
10	6-32	.302	.188	.875	1.922	.675	1.266	.685	.434	1.438	.734	.205	.312	.675	2.271	M16x1.5-6H	.936
12	6-32	.428	.312	1.000	1.922	.803	1.266	.813	.548	1.438	.858	.338	.442	.812	2.411	M16x1.5-6H	.936
14	6-32	.552	.375	1.125	1.922	.920	1.266	.930	.673	1.438	.984	.416	.539	.940	2.599	M18x1.5-6H	.936
16	6-32	.615	.500	1.188	2.047	1.047	1.266	1.057	.798	1.438	1.110	.550	.616	1.067	2.943	M22x1.5-6H	.936
18	8-32	.740	.625	1.438	2.078	1.165	1.266	1.175	.899	1.438	1.234	.600	.672	1.194	3.172	M25x1.5-6H	.936
20	8-32	.740	.625	1.438	2.344	1.290	1.516	1.301	1.024	1.656	1.360	.635	.747	1.322	3.610	M25x1.5-6H	1.180
22	8-32	.928	.750	1.625	2.344	1.418	1.516	1.430	1.149	1.656	1.484	.670	.846	1.449	3.766	M32x1.5-6H	1.180
24	8-32	.990	.800	1.719	2.406	1.543	1.578	1.555	1.274	1.717	1.610	.740	.894	1.576	3.985	M32x1.5-6H	1.180

PT02 (MS3112) **SP02**

box mounting receptacle



- PT02A-XX-XXX
- SP02A-XX-XXX PT02C-XX-XXX
- SP02C-XX-XXX
- PT02E-XX-XXX SP02E-XX-XXX
- MS3112E-XX-XXX PT02P-XX-XXX
- SP02P-XX-XXX MS3112P-XX-XXX

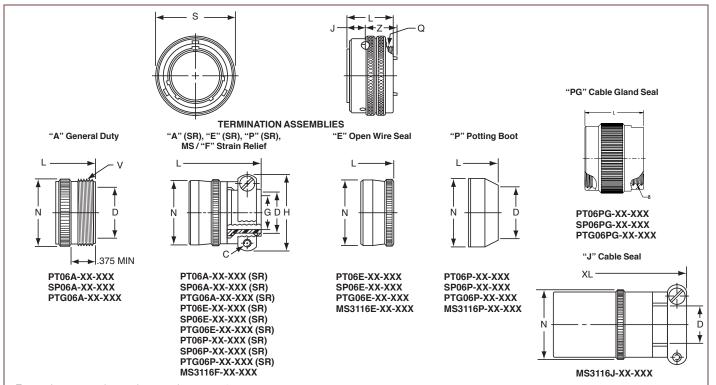
To complete part number see how to order on page 25.

- (MMC) located within .0025 of (TP)
- The PT02 and SP02 box mounting receptacles are made only to complete a series; no provision is made for accessories or potting on the rear skirt.

	F	Receptacle	Front Vie	w				Rece	ptacle Side	e View			
Shell		R P)		s	A +.001	+.(K 020 010	L	+.0	M 010 000	N Dia.	l	Z ax.
Size	PT	SP	PT	SP	005	PT	SP	Max.	PT	SP	Max.	PT	SP
6	.469	.641	.688	.953	.348	.493	.524	.825	.431	.462	.323	.465	.438
8	.594	.734	.812	1.047	.473	.493	.524	.825	.431	.462	.449	.465	.438
10	.719	.812	.938	1.125	.590	.493	.524	.825	.431	.462	.573	.465	.438
12	.812	.938	1.031	1.250	.750	.493	.524	.825	.431	.462	.699	.465	.438
14	.906	1.031	1.125	1.344	.875	.493	.524	.825	.431	.462	.823	.465	.438
16	.969	1.125	1.219	1.438	1.000	.493	.524	.825	.431	.462	.949	.465	.438
18	1.062	1.203	1.312	1.516	1.125	.493	.524	.825	.431	.462	1.073	.465	.438
20	1.156	1.297	1.438	1.672	1.250	.650	.650	1.076	.556	.556	1.199	.526	.531
22	1.250	1.375	1.562	1.750	1.375	.650	.650	1.076	.556	.556	1.323	.526	.531
24	1.375	1.500	1.688	1.875	1.500	.683	.683	1.109	.589	.589	1.449	.493	.497

PT06 (MS3116) SP06

straight plug



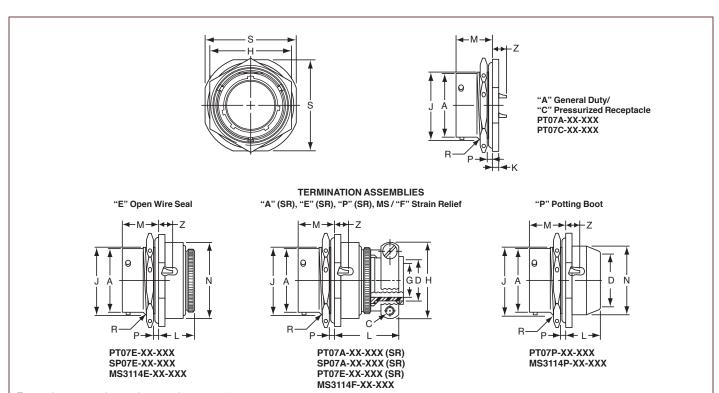
To complete part number see how to order on page 25.

	Plug Front View		P	ug Side View				Class "A"	
Shell Size	S Max.	J	L Max.	Q Thread Class 2A	Z Max.	D Min.	L Max.	N Max.	V Thread Class A
6	.625	.353	.906	.3125-32 NEF	.594	.175	1.609	.462	.3750-32 NEF
8	.750	.353	.906	.4375-28 UNEF	.594	.297	1.609	.590	.5000-28 UNEF
10	.859	.353	.906	.5625-24 NEF	.594	.421	1.609	.717	.6250-24 NEF
12	1.013	.353	.906	.6875-24 NEF	.594	.546	1.609	.834	.7500-20 UNEF
14	1.156	.353	.906	.8125-20 UNEF	.594	.663	1.609	.970	.8750-20 UNEF
16	1.281	.353	.906	.9375-20 UNEF	.594	.787	1.609	1.088	1.0000-20 UNEF
18	1.319	.353	.906	1.0625-18 NEF	.594	.879	1.609	1.216	1.1875-18 NEF
20	1.531	.415	1.062	1.1875-18 NEF	.672	1.014	1.656	1.332	1.1875-18 NEF
22	1.656	.415	1.062	1.3125-18 NEF	.672	1.135	1.656	1.460	1.4375-18 NEF
24*	1.776	.415	1.125	1.4375-18 NEF	.672	1.259	1.750	1.587	1.4375-18 NEF

	Class	"A" (SF	R), "E" (SR), "P"	(SR), MS	S/"F"	Class "E"	, MS/"E"	Class	"P", MS	/"P"		Clas	s "J"		Class "Po	G"
Shell	c	D	G	н	L	N	L	N	D	L	N	D)	N	XL	В	L
Size	Thread	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Closed	Free	Max.	Max.	Thread	Max.
6	_	_	_	_	_	_	1.266	.440	.192	1.438	.484	_	_	_	_	_	_
8	6-32	.240	.125	.812	1.922	.550	1.266	.560	.317	1.438	.608	.168	.230	.547	2.271	M12x1.5-6H	.936
10	6-32	.302	.188	.875	1.922	.675	1.266	.685	.434	1.438	.734	.205	.312	.675	2.271	M16x1.5-6H	.936
12	6-32	.428	.312	1.000	1.922	.803	1.266	.813	.548	1.438	.858	.338	.442	.812	2.411	M16x1.5-6H	.936
14	6-32	.552	.375	1.125	1.922	.920	1.266	.930	.673	1.438	.984	.416	.539	.940	2.599	M18x1.5-6H	.936
16	6-32	.615	.500	1.188	2.047	1.047	1.266	1.057	.798	1.438	1.110	.550	.616	1.067	2.943	M22x1.5-6H	.936
18	8-32	.740	.625	1.438	2.078	1.165	1.266	1.175	.899	1.438	1.234	.600	.672	1.194	3.172	M25x1.5-6H	.936
20	8-32	.740	.625	1.438	2.344	1.290	1.516	1.301	1.024	1.656	1.360	.635	.747	1.322	3.610	M25x1.5-6H	1.180
22	8-32	.928	.750	1.625	2.344	1.418	1.516	1.430	1.149	1.656	1.484	.670	.846	1.449	3.766	M32x1.5-6H	1.180
24	8-32	.990	.800	1.719	2.406	1.543	1.578	1.555	1.274	1.717	1.610	.740	.894	1.576	3.985	M32x1.5-6H	1.180

PT07 (MS3114) SP07

jam nut receptacle



To complete part number see how to order on page 25.

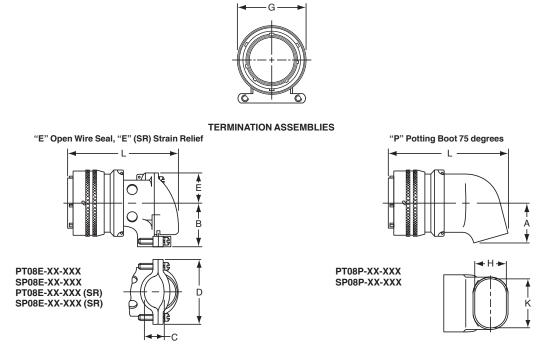
	Recept. F	ront View				Recept	tacle Side	View				Class "E"	', MS/"E"	
			A Dia.	J Flat	K		P Panel T	hickness	R					
Shell Size	H ±.016	s	+.001 005	+.000 010	+.011 010	М	Min.	Max.	Thread Class 2A UNEF	Z	L Max.	M	N Max.	Z ±.040
6	.625	.812	.348	.405	.125	.696	.062	.125	.4375-28	.231	.568	.696	.604	.191
8	.750	.938	.473	.530	.125	.696	.062	.125	.5625-24	.231	.568	.696	.729	.191
10	.875	1.062	.590	.655	.125	.696	.062	.125	.6875-24	.231	.568	.696	.854	.191
12	1.062	1.250	.750	.818	.125	.696	.062	.125	.8750-20	.231	.568	.696	.979	.191
14	1.188	1.375	.875	.942	.125	.696	.062	.125	1.0000-20	.231	.568	.696	1.104	.191
16	1.312	1.500	1.000	1.066	.125	.696	.062	.125	1.1250-18	.231	.568	.696	1.229	.191
18	1.438	1.625	1.125	1.191	.125	.696	.062	.125	1.2500-18	.231	.568	.696	1.354	.191
20	1.562	1.812	1.250	1.316	.156	.884	.062	.250	1.3750-18	.261	.630	.884	1.510	.221
22	1.688	1.938	1.375	1.441	.156	.884	.062	.250	1.5000-18	.261	.630	.884	1.635	.221
24	1.816	2.062	1.500	1.566	.156	.917	.062	.250	1.6250-18	.228	.660	.917	1.760	.188

		Class "	A" (SR), "	'P" (SR), I	MS/"F"				Class "E	" (SR)				Class	"P", MS	/"P"	
Shell	С	D					С	D					D	L +.010			
Size	Thread	Max.	G	Н	L	M	Thread	Max.	G	Н	L	M	Max.	026	M	N	Z
6	_	_	_	_	_	_	_	_	_	_	_	_	.202	.593	.696	.484	.191
8	6-32	.250	.125	.781	1.062	.696	6-32	.250	.125	.775	1.029	.696	.327	.593	.696	.608	.191
10	6-32	.312	.188	.844	1.062	.696	6-32	.312	.188	.837	1.029	.696	.444	.593	.696	.734	.191
12	6-32	.438	.312	.969	1.062	.696	6-32	.438	.312	.963	1.029	.696	.558	.593	.696	.858	.191
14	6-32	.562	.375	1.094	1.062	.696	6-32	.562	.375	1.087	1.029	.696	.683	.593	.696	.984	.191
16	6-32	.625	.500	1.156	1.188	.696	6-32	.625	.500	1.150	1.161	.696	.808	.593	.696	1.110	.191
18	8-32	.750	.625	1.406	1.188	.696	8-32	.750	.625	1.400	1.161	.696	.909	.593	.696	1.234	.191
20	8-32	.750	.625	1.406	1.250	.884	8-32	.750	.625	1.400	1.224	.884	1.034	.718	.884	1.360	.221
22	8-32	.938	.750	1.594	1.250	.884	8-32	.938	.750	1.587	1.224	.884	1.159	.718	.884	1.484	.221
24*	8-32	1.000	.800	1.594	1.250	.917	8-32	1.000	.800	1.681	1.320	.917	1.284	.718	.917	1.610	.188

^{*} Size 24 strain relief available in PT only.

PT08 E SP08 E

90 degree plug



To complete part number see how to order on page 25. All lockwire holes are .044 Dia. Min.

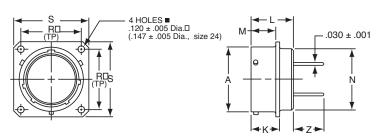
	Plug Front View		Plug Side View Class "E", "E" (SR) Class "P"										
			Clas	ss "E", "E"	(SR)			Class	"P"				
Shell Size	G Dia. Max.	B ±.031	C +.010 025	D ±.062	E +.047 025	L ±.057	A ±.025	H ±.015	K ±.015	L Max.			
8	.796	.655	.169	.941	.339	1.786	.469	.312	.438	1.656			
10	.921	.749	.170	1.191	.393	1.880	.547	.438	.562	1.781			
12	1.046	.812	.264	1.191	.450	1.965	.625	.516	.688	1.843			
14	1.171	.905	.310	1.254	.519	2.113	.734	.625	.781	1.953			
16	1.297	1.030	.330	1.316	.583	2.315	.750	.656	.890	2.000			
18	1.422	1.015	.444	1.562	.621	2.423	.781	.703	1.000	2.046			
20	1.562	1.077	.510	1.625	.683	2.695	.859	.766	1.125	2.218			
22	1.672	1.139	.515	1.719	.739	2.742	.906	.812	1.234	2.265			
24	1.797	1.265	.656	1.751	.797	2.980	1.169	.918	1.374	2.624			

PT Connectors with Printed Circuit Board Contacts

Box Mounting Receptacle (PT02) with PCB Contacts

Order by applicable part number in chart below; add insert arrangement number. Refer to insert availability

■ (MMC) located within .0025 of (TP)



		Receptacle	Front View			Receptacle	Side View		
Shell Size	Part Number* PT02 with PCB Contacts	R (TP)	\$ +.011 010	A +.001 005	K +.021 010	L Max.	M +.010 000	N Dia. Max.	Z +.040 050
6	71-570120-XXX	.469	.688	.348	.493	.825	.431	.323	.380
8	71-570121-XXX	.594	.812	.473	.493	.825	.431	.449	.380
10	71-570122-XXX	.719	.938	.590	.493	.825	.431	.573	.380
12	71-570123-XXX	.812	1.031	.750	.493	.825	.431	.699	.380
14	71-570124-XXX	.906	1.125	.875	.493	.825	.431	.823	.380
16	71-570125-XXX	.969	1.219	1.000	.493	.825	.431	.949	.380
18	71-570126-XXX	1.062	1.312	1.125	.493	.825	.431	1.073	.380
20	71-570127-XXX	1.156	1.438	1.250	.650	1.076	.556	1.199	.286
22	71-570128-XXX	1.250	1.562	1.375	.650	1.076	.556	1.323	.286
24	71-570129-XXX	1.375	1.688	1.500	.683	1.109	.589	1.449	.253

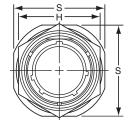
All dimensions for reference only.

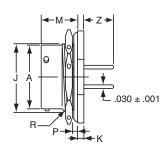
Jam Nut Receptacle (PT07) with PCB Contacts

All lockwire holes are .044 Dia. Min.

Order by applicable part number in chart below; add insert arrangement number. Refer to insert availability

on pages 4-10.





		Receptacle	Front View				Recept	tacle Side	e View		
Shell	Part Number* PT07 with PCB	H +.017	s	A Dia. +.001	J Flat +.000	K +.011	м		anel (ness	R Thread	Z +.025
Size	Contacts	016	±.010	005	010	010	±.010	Min.	Max.	Class 2A	035
6	71-533720-XXX	.625	.812	.348	.405	.125	.696	.062	.125	.4375-28 UNEF	.376
8	71-533721-XXX	.750	.938	.473	.530	.125	.696	.062	.125	.5625-24 UNEF	.376
10	71-533722-XXX	.875	1.062	.590	.655	.125	.696	.062	.125	.6875-24 UNEF	.376
12	71-533723-XXX	1.062	1.250	.750	.818	.125	.696	.062	.125	.8750-20 UNEF	.376
14	71-533724-XXX	1.188	1.375	.875	.942	.125	.696	.062	.125	1.0000-20 UNEF	.376
16	71-533725-XXX	1.312	1.500	1.000	1.066	.125	.696	.062	.125	1.1250-18 UNEF	.376
18	71-533726-XXX	1.438	1.625	1.125	1.191	.125	.696	.062	.125	1.2500-18 UNEF	.376
20	71-533727-XXX	1.562	1.812	1.250	1.316	.156	.884	.062	.250	1.3750-18 UNEF	.367
22	71-533728-XXX	1.688	1.938	1.375	1.441	.156	.884	.062	.250	1.5000-18 UNEF	.367
24	71-533729-XXX	1.816	2.062	1.500	1.566	.156	.917	.062	.250	1.6250-18 UNEF	.334

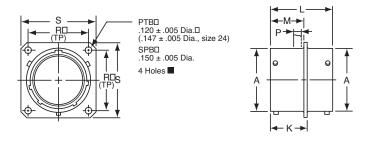
^{*} For RoHS compliance connectors with PCB contacts change "71"- to:

[&]quot;FL" designates conductive gray zinc nickel plating

[&]quot;93" designates black zinc cobalt plating

PTB SPB

thru bulkhead receptacle



- * PTB-XX-XXX
 * SPB-XX-XXX
- * To complete part number add desired arrangement number (refer to pages 4 and 5 for insert availability) and add "PS"; Example: PTB-18-32PS. If a rotation is required, use PTB-18-32PS and add W, X, Y or Z. Example: PTB-18-32 PSW. The socket end of the insert always appears at the "P" dimension end of shell.
- (MMC) located within .0025 of (TP)

		Receptacle	Front View	i			Receptacl	e Side View		
Shell	_	R P)	,	S	A +.001	K +.016		M +.010		P ax.
Size	PTB	SPB	PTB	SPB	005	000	±.005	000	PTB	SPB
6	.469	.641	.688	.953	.348	.625	1.050	.562	.125	.188
8	.594	.734	.812	1.047	.473	.625	1.050	.562	.125	.188
10	.719	.812	.938	1.125	.590	.625	1.050	.562	.125	.188
12	.812	.938	1.031	1.250	.750	.625	1.050	.562	.125	.188
14	.906	1.031	1.125	1.344	.875	.625	1.050	.562	.125	.188
16	.969	1.125	1.219	1.438	1.000	.625	1.050	.562	.125	.188
18	1.062	1.203	1.312	1.516	1.125	.625	1.050	.562	.125	.188
20	1.156	1.297	1.438	1.672	1.250	.781	1.330	.688	.125	.312
22	1.250	1.375	1.562	1.750	1.375	.781	1.330	.688	.125	.312
24	1.375	1.500	1.688	1.875	1.500	.781	1.330	.688	.125	.312

hermetic



Three shell styles are available in the hermetic PT bayonet series:

- PTIH (MS3113H)
- PT02H
- PT07H (MS3114H)

These hermetic connectors are only available with solder cup or flat eyelet pin contacts in the MS/PT version. Socket contacts are available in some proprietary PT versions. Other design characteristics of the PT hermetic connector series are as follows:

Shell sizes: 8 through 24 (tin plated)

Contact count: 2 through 61. Refer to pages 4 and 5 for insert

availability for hermetics.

5.0 amp each #20 contact Current:

10 amp each #16 contact 17 amp each #12 contact

Contacts are tin plated for PT; gold is optional

Dielectric Withstanding Voltage (sea level): 1500 volts (RMS) 60 cps, Service Rating I 2300 volts (RMS) 60 cps, Service Rating II

Compression glass inserts, permanently lettered

Helium Leakage: Less than 1.0 X 10⁻⁶ cc/sec.

at 15 psi differential

Physical Shock: 100 G's

Vibration: Exceeds MIL-E-5272 Procedure II

Thermal Shock: No deterioration or failure after 5 cycles

at -55°F to +257°F

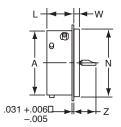
Intermateability: Mates with MS3116 and PT06

Refer to pages 4-10 for insert arrangement availability.

PTIH (MS3113H)

hermetic solder mounting receptacle





- PTIH-XX-XXX
- ** PTIY-XX-XXX
- MS3113H-XXCXXX
- † PTIH-XX-XXX (100)
- †† PTIY-XX-XXX (100) †† MS3113H-XXYXXX

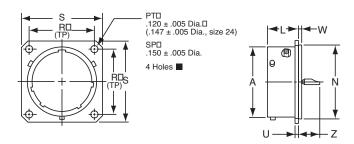
To complete part number see how to order on page 25.

- * Solder cup pin contacts without interfacial seal
- ** Solder cup pin contacts with interfacial seal † Flat eyelet pin contacts without interfacial seal
- †† Flat eyelet pin contacts with interfacial seal

	Recept. Front View			Receptacle Side View		
Shell Size	G Dia. Max.	A Dia. +.001 005	L +.025 016	N Dia. +.001 005	W +.011 010	Z Max.
6	.511	.348	.447	.438	.094	.386
8	.636	.473	.447	.562	.094	.386
10	.761	.590	.447	.672	.094	.386
12	.855	.750	.447	.781	.094	.386
14	.980	.875	.447	.906	.094	.386
16	1.105	1.000	.447	1.031	.094	.386
18	1.229	1.125	.447	1.156	.094	.386
20	1.323	1.250	.509	1.250	.094	.386
22	1.449	1.375	.509	1.375	.125	.418
24	1.574	1.500	.542	1.500	.125	.418

PT02H

hermetic box mounting receptacle



- PT02H-XX-XXX ** PT02Y-XX-XXX
- † PT02H-XX-XXX (100) †† PT02Y-XX-XXX (100)

To complete part number see how to order on page 25.

* Solder cup pin contacts without interfacial seal

** Solder cup pin contacts with interfacial seal

† Flat eyelet pin contacts without interfacial seal

- †† Flat eyelet pin contacts with interfacial seal (MMC) located within .0025 of (TP)

	Receptacle	Front View			Receptac	le Side View	i	
Shell Size	R (TP)	S ±.016	A Dia. +.001 005	K ±.015	L +.025 015	N Dia. +.001 005	U +.011 010	Z Max.
6	.469	.688	.348	.047	.494	.438	.062	.344
8	.594	.812	.473	.047	.494	.562	.062	.344
10	.719	.938	.590	.047	.494	.672	.062	.344
12	.812	1.031	.750	.047	.494	.781	.062	.344
14	.906	1.125	.875	.047	.494	.906	.062	.344
16	.969	1.219	1.000	.047	.494	1.031	.062	.344
18	1.062	1.312	1.125	.047	.494	1.156	.062	.344
20	1.156	1.438	1.250	.047	.556	1.250	.062	.344
22	1.250	1.562	1.375	.079	.556	1.375	.062	.377
24	1.375	1.688	1.500	.079	.588	1.500	.062	.377