Amphenol[®]



PT Series Miniature Cylindrical Connectors 12-070-18

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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 191 Delaware Avenue Sidney, New York 13838-1395 Telephone: 888-364-9011

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.

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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

00000.

PT Solder wall mount receptacle



PT-SE Crimp wall mount 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 Series is a modification of the PT with same features except a wider flange for back panel mounting

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

Options

• 6 shell styles with 47 insert patterns

7 shell styles with 60 insert patterns

Pre-installed coax solder contacts

· Hermetic seal (glass fusion)

receptacle styles available

Pressurized thru bulkhead

receptacle style available

Printed circuit board contacts

are available

are available

Coax and thermocouple contacts are available

Amphenol[®] Miniature Cylindrical 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.

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.

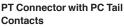
Overmolded Cable

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 Hermetic Seal Insert and Coax Contacts







PT Connector with Flex



PT Connector with EMI Filter Protection



PT Connector with Overmolded Cable

Amphenol[®] Miniature Cylindrical 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		РТ	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 AVAILA	BILITY					
Wall Mounting Recepta	acle "00"	•	•	•	•	**•
Cable Connecting Rec	eptacle "01" ***	•	•		•	•
Box Mounting Recepta	cle "02"	*•	•	•	•	**•
Straight Plug "06"		•	•	•	•	•
Jam Nut Receptacle "0	7"	*•	*•	•	•	•
Thru-bulkhead Recept	acle "TB"	•		•		
Solder Mount Recepta	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.

Amphenol® Miniature Cylindrical insert availability

		Solder 1	Terminat	ion	Crimp Termination				Co	ntact S	Size	
					-					r	bax	
Insert Arrangement	MS/PT	РТ	SP	Hermetic PT MS-PT	MS/PT-SE PT-SE SP-SE	Total Contacts	20	16	12	12	8	Service Rating
6-1		Х	Х	X*		1	1					I
8-2	Х	Х	Х	Х		2	2					I
8-3	Х	Х	Х	Х		3	3					I
8-4	Х	Х	Х	Х		4	4					I
8-33	Х	Х	Х	Х	Х	3	3					I
8-98		Х	Х			3	3					I
10-2		Х	Х			2		2				I
10-5		Х	Х	X*		5	5					I
10-6	Х	Х	Х	Х	Х	6	6					I
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				11
12-4		Х	Х	X*		4		4				I
12-8	х	Х	Х	X*	Х	8	8					I
12-10	х	Х	Х	Х	Х	10	10					I
12-14		Х	Х			14	14					I
12-98		Х	Х			10	10					I
14-2		Х	Х			2				2		11
14-4		S	S	Х		4			4			I
14-5	х	Х	Х	Х	Х	5		5				11
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	I
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				11
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†††					Χ*	14	8		1	5		***
16-99	Х	Х	Х		Х	23	21	2				I
18-5		Х	Х		X*	5			5			11
18-8						8			8			I
18-11	Х	Х	Х	Х	Х	11		11				11
18-30	х	Х	Х	X*	Х	30	29	1				I

*Not available in MS version

Flashover voltage 5,000 VAC (RMS) *1500 VAC (RMS)

S designates Socket insert only.

P designates Pin insert only.

†Size 12 contacts for #10 wire

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Amphenol® Miniature Cylindrical insert availability, cont.

		Solder 1	Ferminat	ion	Crimp Termination				Co	ntact S	Size	
										Co	ax	
Insert Arrangement	MS/PT	РТ	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	Х	32	32					I
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	Х	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					I
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				Ш
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			4		I
24-61	Х	Х	Х	Х	Х	61	61					I
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

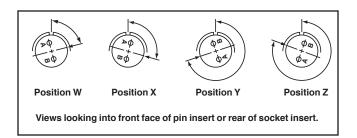
Amphenol[®] Miniature Cylindrical alternate positioning

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 Rotation											
Shell	Insert		Deg	rees							
Size	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	_	-	-	-						
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	_	-	_						

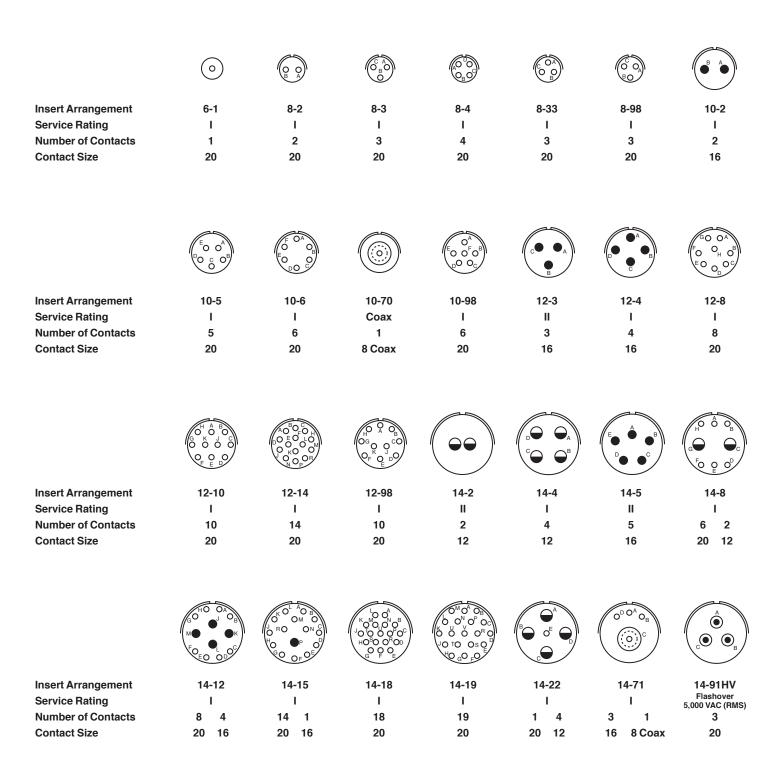


Insert Rotation											
Shell	Insert		Deg	rees							
Size	Arrangement	w	Х	Y	z						
18	18-11*	62	119	241	340						
18	18-30*	180	193	285	350						
18	18-32*	85	138	222	265						
18	18-71	18	108	127	215						
18	18-72	53	102	213	293						
18	18-75	45	_	_	_						
18	18-76	_	-	_	_						
18	18-80	45	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

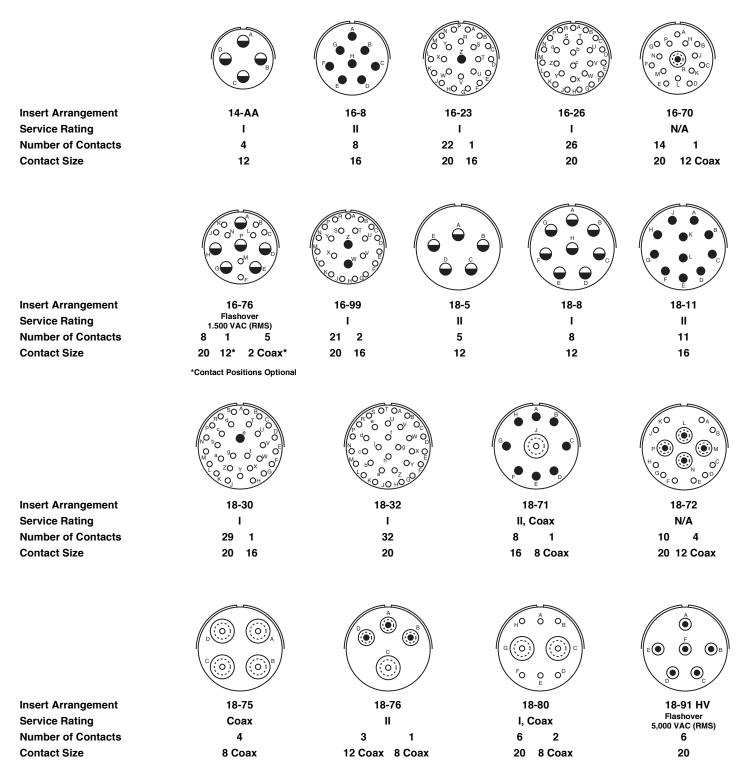
Amphenol[®] Miniature Cylindrical insert arrangements

front face of pin inserts illustrated



Amphenol[®] Miniature Cylindrical insert arrangements

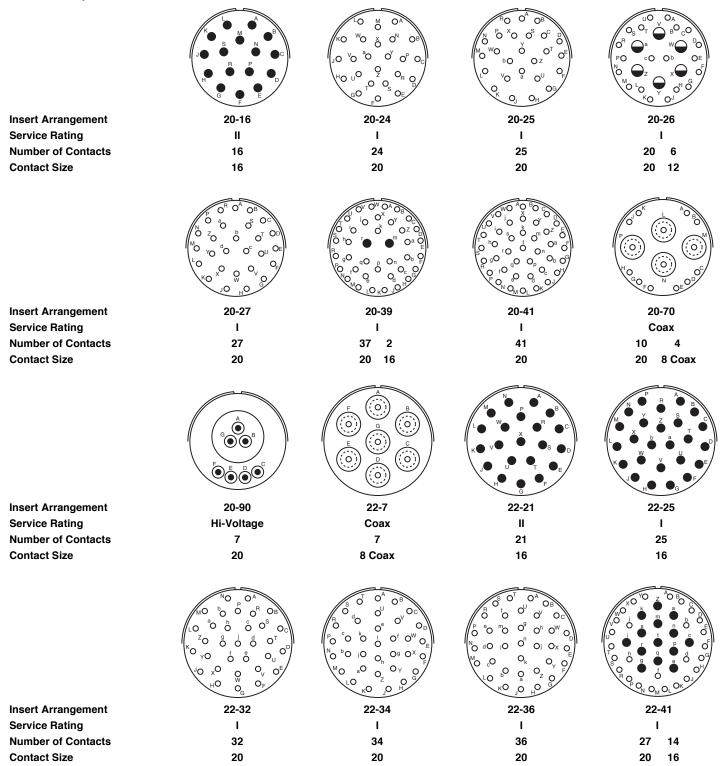
front face of pin inserts illustrated



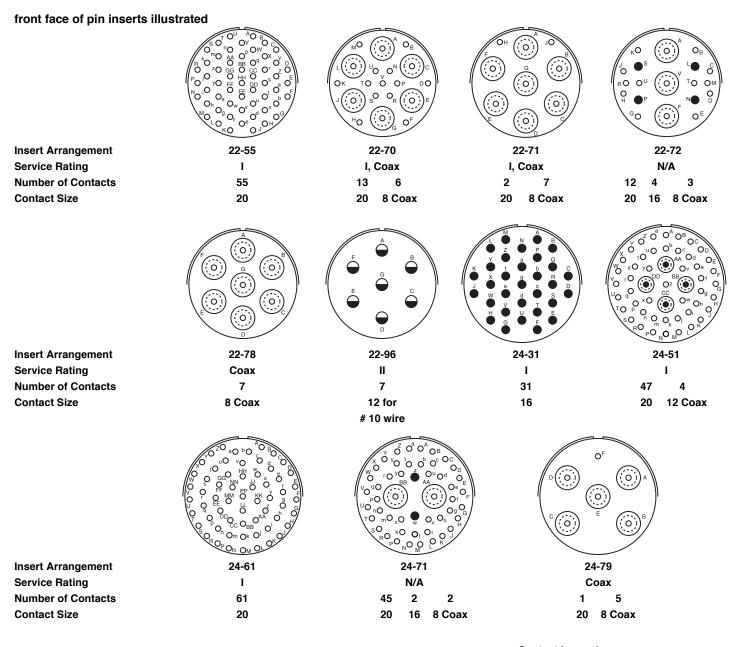
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Amphenol[®] Miniature Cylindrical insert arrangements

front face of pin inserts illustrated



Amphenol[®] Miniature Cylindrical insert arrangements



Conta	ct Legend
<u>Symbol</u>	Contact Size
0	20
•	16
Θ	12
۲	HV
۲	12 Coax
(\circ)	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



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

		Сог	ntact Specific	catio	ons							
Contact Size		Test Current	Maximum Millivolt Drop†		Solde Dian		S	older Well Depth				
20		7.5	55	.046 +.004 000		0		040				25 +.031 000
16		13.0	50		.078 +.005 003		.0/0 .100					
12		23.0	42	.116 +.004 002		.1	88 +.031 000					
			Service Rati	ng								
	R	ecommended	Tes	t Vo	Itage AC	C (RMS),	60 d	ps				
Service Rating		Operating AC Voltage at Sea Level	Sea Level	50,000 ft.		70,00 ft.	0	110,000 ft.				
I	600		1,500	500		375		200				

2,300

750

500

200

 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.

1,000

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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

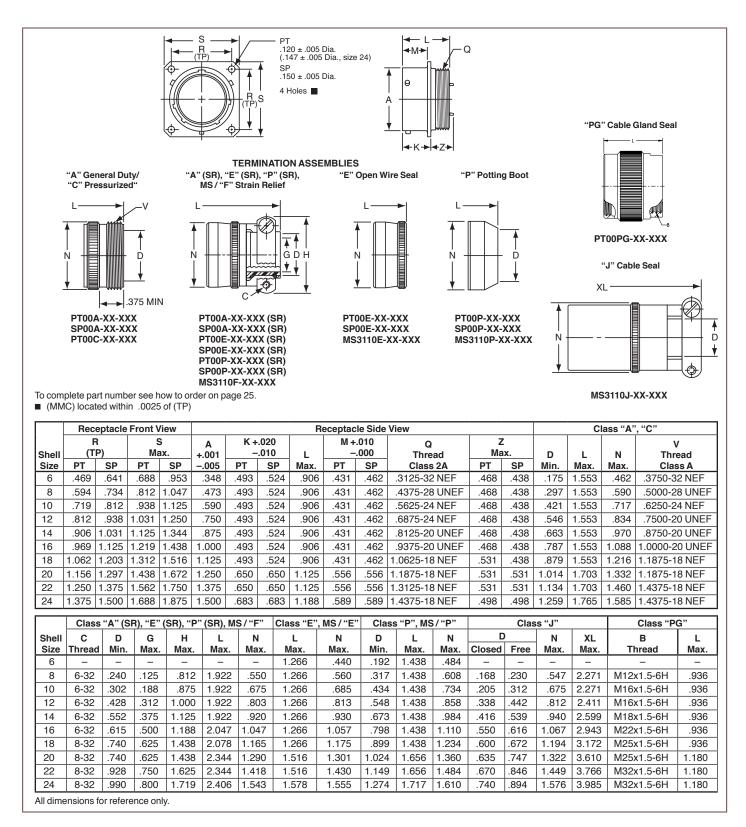
The MS/PT Miniature connector is available in the following certified service classes:

- "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

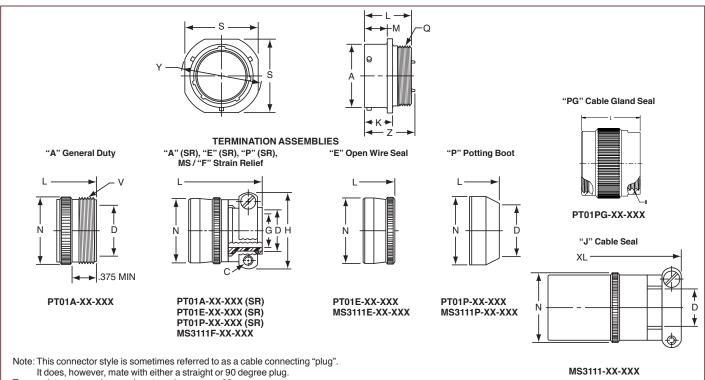


PT00 (MS3110) SP00

wall mounting receptacle



PT01 (MS3111) cable connecting receptacle

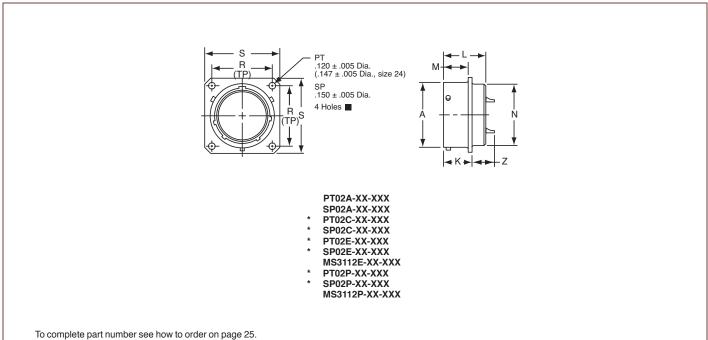


To complete part number see how to order on page 25.

	Recept. F	ront View			Recep	tacle Side	View		Class "A",				
Shell Size	S ±.020	Y ±.020	A +.001 005	K +.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" (SR), "E" (SR), "P" (SR), MS / "F"				S/"F"	Class "E", MS / "E" Class "			s "P", MS/"P"			Clas	s "J"		Class "PG"		
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
All dime	All dimensions for reference only.																

PT02 (MS3112) SP02 box mounting receptacle

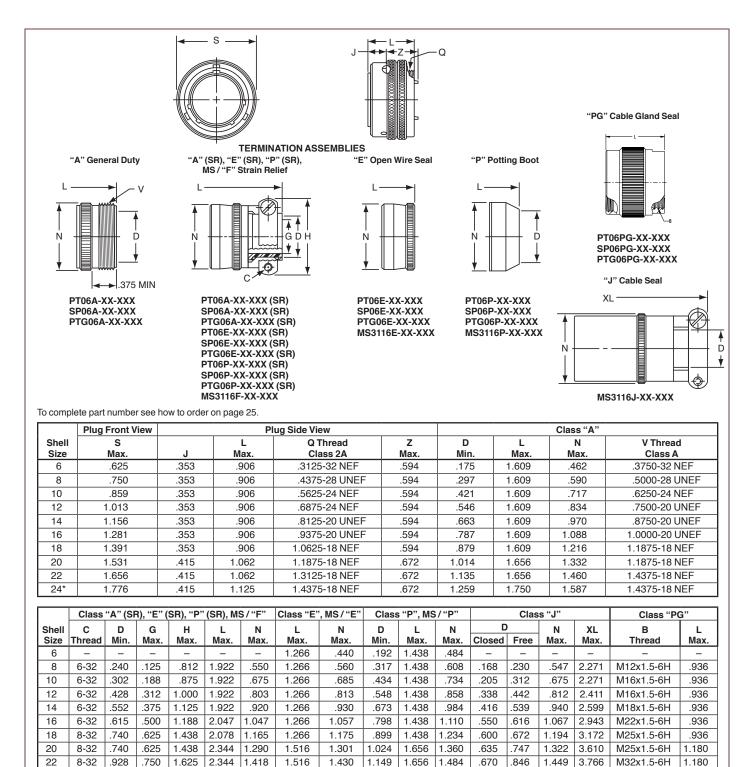


■ (MMC) located within .0025 of (TP)

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	otacle Side	e View													
Shell	ell (TP)												(TP) S		A +.001	+.(K)20)10	L	+.0	M)31)00	N Dia.		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



All dimensions for reference only

.990

.800

1.719

2.406

1.543

1.578

1.555

8-32

1.274

1.717

1.610

.740

.894

1.576

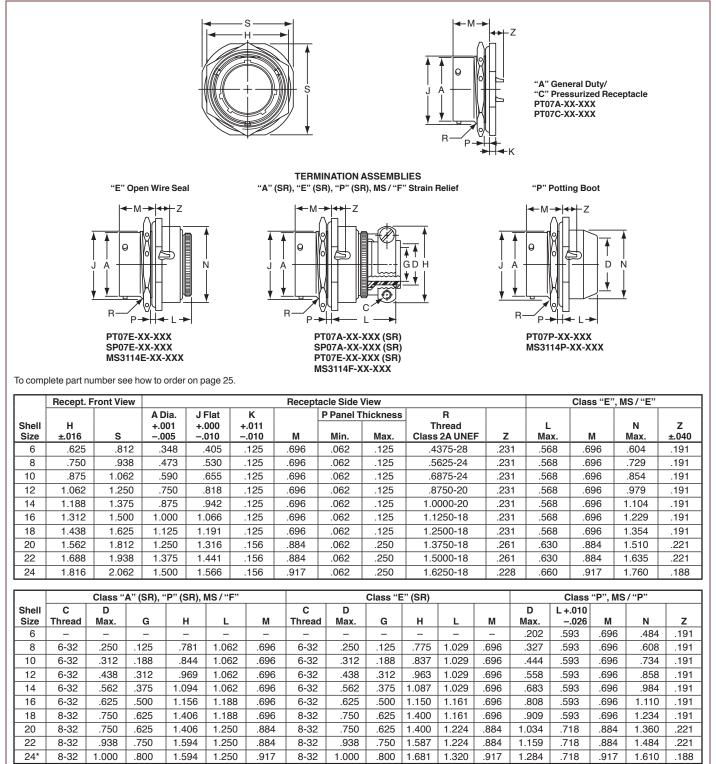
3.985

M32x1.5-6H

1.180

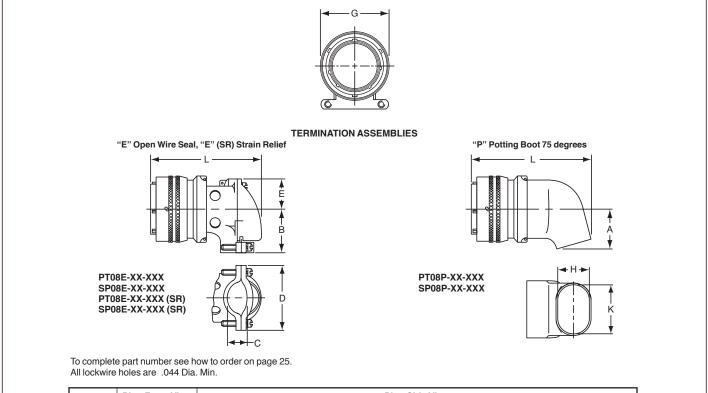
24

PT07 (MS3114) SP07 jam nut receptacle



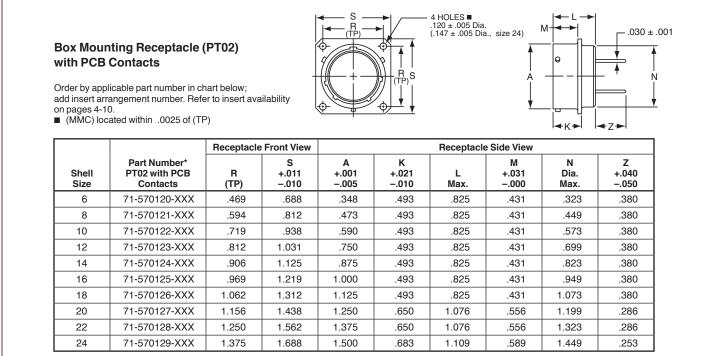
^r Size 24 strain relief available in PT only. All dimensions for reference only.

PT08 E SP08 E 90 degree plug



	Plug Front View		Plug Side View											
			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

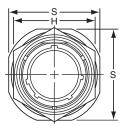


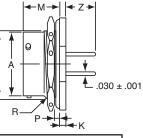
All dimensions for reference only.

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		Receptacle Side View								
Shell	Part Number* PT07 with PCB	H +.017	s	A Dia. +.001	J Flat +.000	K +.011	м	P Panel Thickness				R	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		

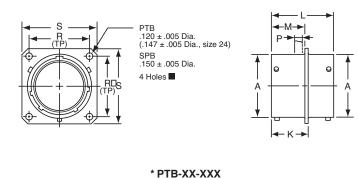
All dimensions for reference only.

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

"FL" designates conductive gray zinc nickel plating "93" designates black zinc cobalt plating

Downloaded from Arrow.com.

PTB SPB thru bulkhead receptacle



* 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	/	Receptacle Side View							
Shell	-	? Р)	S		A +.001	K +.016		M +.010	P Max.			
Size	РТВ	SPB	PTB	SPB	005	000	±.005	000	РТВ	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		

PT 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.

Current: 5.0 amp each #20 contact 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° cc/sec. at 15 psi differential
- Physical Shock: 100 G's

Vibration: Exceeds MIL-E-5272 Procedure II

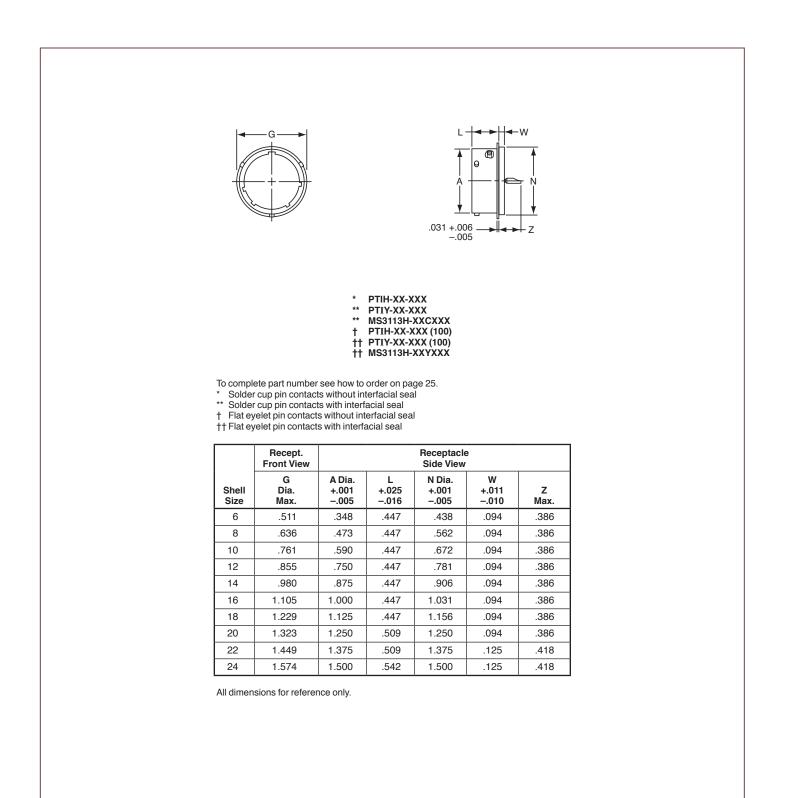
Thermal Shock: No deterioration or failure after 5 cycles at -55°F to +257°F

Intermateability: Mates with MS3116 and PT06

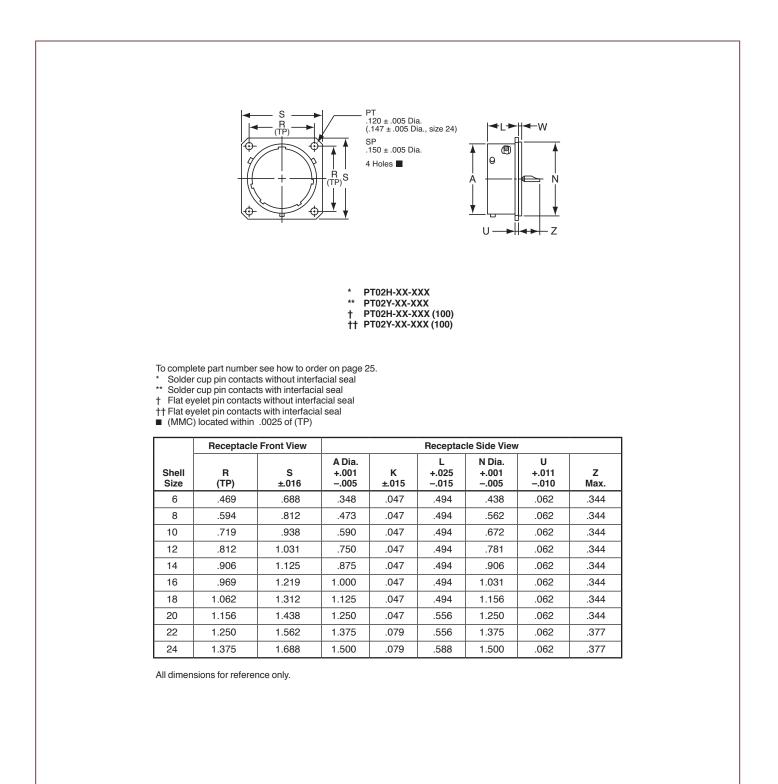
Refer to pages 4-10 for insert arrangement availability.

PTIH (MS3113H)

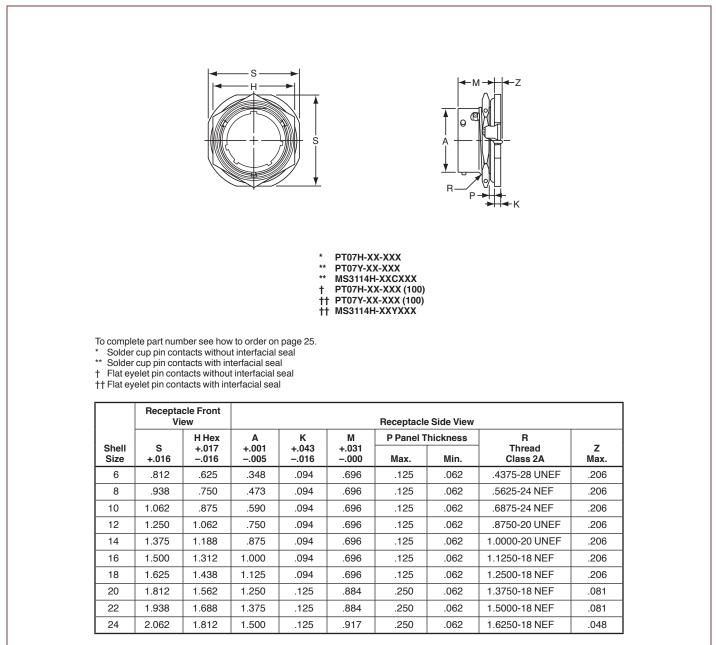
hermetic solder mounting receptacle



PT02H hermetic box mounting receptacle



PT07H (MS3114H) hermetic jam nut receptacle



PT, SP, MS/PT how to order

PT, SP

To more easily illustrate ordering procedure, part number PT00A-20-41PW(SR) is shown as follows:

PT	00	A	- 20	- 41	Р	W	(SR)
1	2	3	4	5	6	7	8

See code below:

1. Connector Type

- designates standard olive drab, electrically conductive cadmium plate "PT" bayonet lock connector with solder contacts
- "SP" designates electrically non-conductive, hard anodic coated bayonet lock connector with solder contacts and larger flange and mounting holes for back panel mounting
- "PTG" designates plug with grounding fingers
- 2 Shell Style
 - "00" designates wall mounting receptacle
 - "01" designates cable connecting receptacle**
 - "02" designates box mounting receptacle
 - "06" designates straight plug
 - "07" designates jam nut receptacle
 - "08" designates 90 degree plug cable support
 - "B" designates thru bulkhead receptacle (pressurized)
 - "" designates solder mount receptacle (Hermetic only)
- 3. Service Classes
 - "A" designates general duty back shell
 - "C" designates pressurized receptacle
 - "E" designates environmental resisting open wire seal with grommet and nut
 - "P" designates assembly with potting boot
 - "PG" designates adapter for cable gland for moisture proofing jacketed cables
 - "H" designates hermetic* without interfacial seal
 - "Y" designates hermetic* with interfacial seal
- Shell Size 4
- "20" designates shell size. Shell sizes 6 through 24 available.
- Insert Arrangement Refer to pages 4-10 for insert availability. 5
- "20 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
- 6. Contacts
 - "P" designates pin contacts
 - "S" designates socket contacts

For ordering connectors with printed circuit board contacts, see pg. 19.

- 7. Insert Rotation Refer to page 6.
 - "W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal position. No letter required for normal (no rotation) position.
- 8. "SR" designates a strain relief clamp.
 - Indicate optional finishes as follows:
 - (003) olive drab cadmium plate (standard on "PT")
 - (100) Suffix added for flat eyelet pin contacts in hermetic versions OR
 - RoHS Compliant finish suffix as follow:
 - (005) anodic coating Alumilite® (standard on "SP")
 - (023) electroless nickel
 - (025) black zinc cobalt plating
 - (072) conductive gray zinc nickel plating
 - (424) electroless nickel finish with strain relief
 - (470) black zinc cobalt plating with strain relief



MS/PT MII -DTI -26482 Series 1

		0402	, ວັດກ			
Part n	umber N	IS3110	DE20-4	1PW is	showr	n as fo
MS	311	0	Е	20 -	41	Р

1	2	3	4	5	6	7	8
	ermetic is show			art num	ber MS	3113H	20Y-

llows:

W

MS	311	3	Н	20 Y 41	Ρ	W
1	2	3	4	5,6	7	8

See code below:

- 1. "MS" designates Military Standard
- 2. Specification Number "311" designates basic family number for MIL-DTL-26482, Series 1 solder type
- 3. Shell Style

"0" designates wall mounting receptacle "1" designates cable connecting receptacle** "2" designates box mounting receptacle "3" designates solder mount receptacle (hermetic only)

- "4" designates jam nut receptacle
- "6" designates straight plug
- 4. Service Class

"E" designates environmental resisting connector "F" designates environmental resisting connectors with strain relief

"J" designates clamp assembly for moisture proofing multi-jacketed cables, with strain relief

- "P" designates potted type with potting boot
- "H" designates hermetic 5. Shell Size

 - "20" designates shell size. Shell sizes 8 through 24 available
- 6. Insert Arrangement Refer to pages 4-10 for insert availability.

"20 - 41" designates arrangement. (The number following the hyphen is the number only that is used in the part number).

Hermetic version

"20Y41" designates insert arrangement; specify "Y" for flat eyelet pin contacts, or "C" for solder cup pin contacts

- 7. Contact Configuration "P" designates pin contacts "S" designates socket contacts
- 8. Insert Rotation- Refer to page 6.

"W", "X", "Y", "Z" designate that insert is rotated in it shell from "normal" position. No letter require fo normal (no rotation) position.

- Hermetic connectors are supplied with tin plated shells.
- This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

Amphenol PT-SE, SP-SE, MS/PT-SE Proprietary/MIL-DTL-26482, Series 1 bayonet coupling and crimp termination



Amphenol® SE crimp type miniature connectors provide performance and versatility needed for applications demanding high reliability and crimp removable contacts. These crimp contacts are rear insertable/front release and are held in position by an MS approved spring tower retention system.

The MS/PT-SE Series is qualified to MIL-DTL-26482, Series 1 and has all the outstanding design characteristics and quality of the PT Series.

The SP-SE Series is a modification of the PT-SE, 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-SE and MS/PT-SE. The SP-SE 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.

Breakaway style plug is available in PT-SE crimp.

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

Refer to pages 4-10 for insert arrangement availability.

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

Contact Specifications										
Contact Size	Test Current									
20	7.5	55	.049 ±.001	.267						
16	13.0	49	.067 ±.001	.236						
12	23.0	42	.100 ±.002	.236						

Service Rating										
	Recommended Test Voltage AC (RMS), 60 cp									
Service Rating	Operating AC Voltage at Sea Level	Sea Level	50,000 ft.	70,000 ft.	110,000 ft.					
I	600	1,500	500	375	200					
II	1,000	2,300	750	500	200					

† Silver plated wire per MIL-DTL-26482

PT-SE and SP-SE Service Classes

- PT-SE and SP-SE connectors are available in the three service classes listed below.
- "SE" Open wire sealing environmental resistant, with a nut and grommet for moisture proofing individual wires
- "SE" (SR) Strain relief clamp environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support
- "SP" Translucent nylon boot for retaining customer applied potting compounds; held in place by a threaded ring

MS/PT-SE Service Classes

- MS-SE series connectors are available in the following certified service classes:
- "E" Open wire sealing environmental resisting connectors are supplied with a multi-hole grommet and clamping nut for moisture proofing individual open wires
- "F" Environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support
- "P" Potting applications these connectors are supplied with a translucent nylon boot for retention of customer applied potting compound

"SE", MS / "E" open wire seal



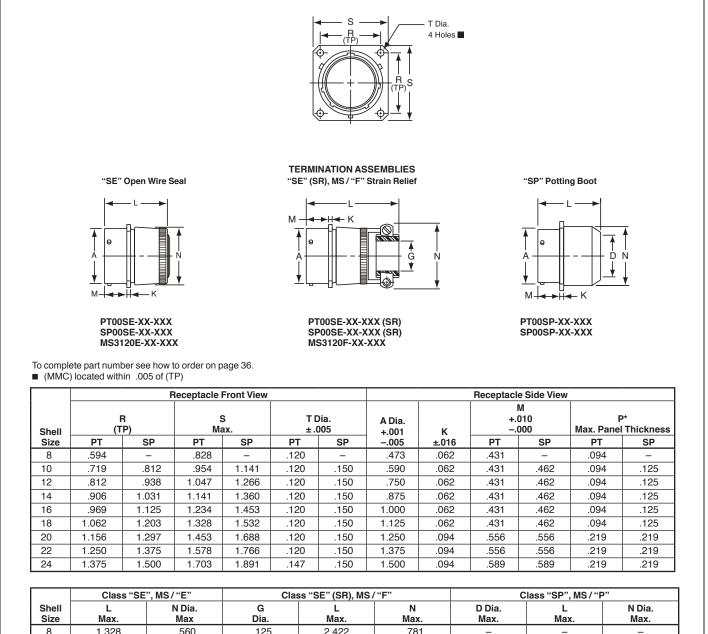
"SE" (SR), MS / "F" strain relief clamp



"SP", MS / "P" potting boot



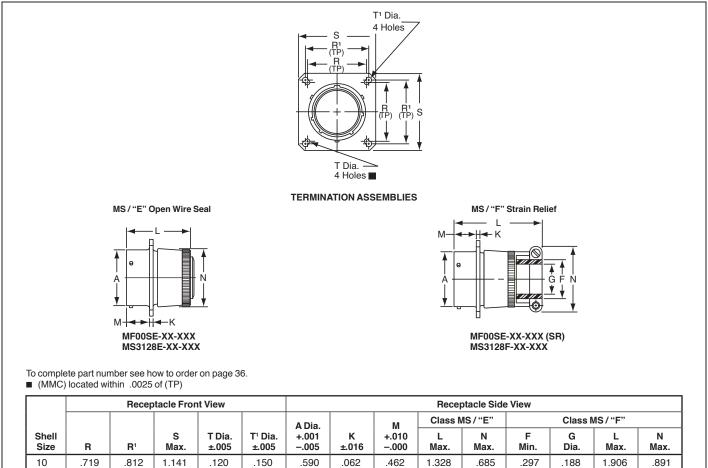
PT00 SE (MS3120) SP00 SE wall mounting receptacle



Size	Max.	Max	Dia.	Max.	Max.	Max.	Max.	Max.
8	1.328	.560	.125	2.422	.781	-	-	-
10	1.328	.704	.188	2.422	.844	.444	1.656	.734
12	1.328	.825	.312	2.422	.969	.558	1.656	.858
14	1.328	.954	.375	2.422	1.094	.683	1.656	.984
16	1.328	1.080	.500	2.537	1.156	.808	1.656	1.110
18	1.328	1.204	.625	2.537	1.406	.909	1.656	1.234
20	1.359	1.330	.625	2.824	1.406	1.034	1.750	1.360
22	1.359	1.454	.750	2.824	1.594	1.159	1.750	1.484
24	1.422	1.580	.800	2.900	1.688	1.284	1.782	1.610

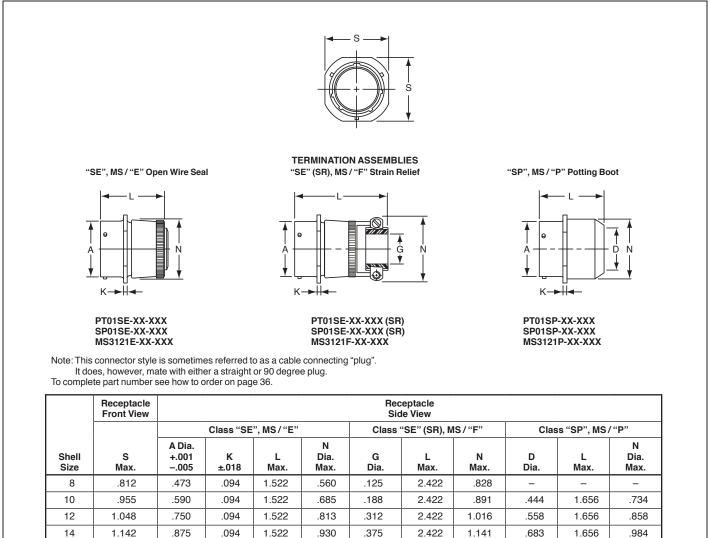
* Back panel mounting

MF00 SE (MS3128) wall mounting receptacle



	-			-						-	-		-	-	-
1	0	.719	.812	1.141	.120	.150	.590	.062	.462	1.328	.685	.297	.188	1.906	.891
1	2	.812	.938	1.266	.120	.150	.750	.062	.462	1.328	.813	.422	.312	1.906	1.016
1	4	.906	1.031	1.360	.120	.150	.875	.062	.462	1.328	.930	.547	.375	1.906	1.141
1	6	.969	1.125	1.453	.120	.150	1.000	.062	.462	1.328	1.057	.609	.500	2.000	1.203
1	8	1.062	1.203	1.532	.120	.150	1.125	.062	.462	1.328	1.175	.734	.625	2.000	1.469
2	20	1.156	1.297	1.688	.120	.150	1.250	.094	.556	1.359	1.301	.734	.625	2.172	1.469
2	2	1.250	1.375	1.766	.120	.150	1.375	.094	.556	1.359	1.428	.922	.750	2.172	1.656
2	4	1.375	1.500	1.891	.147	.150	1.500	.094	.589	1.422	1.533	.984	.800	2.234	1.750

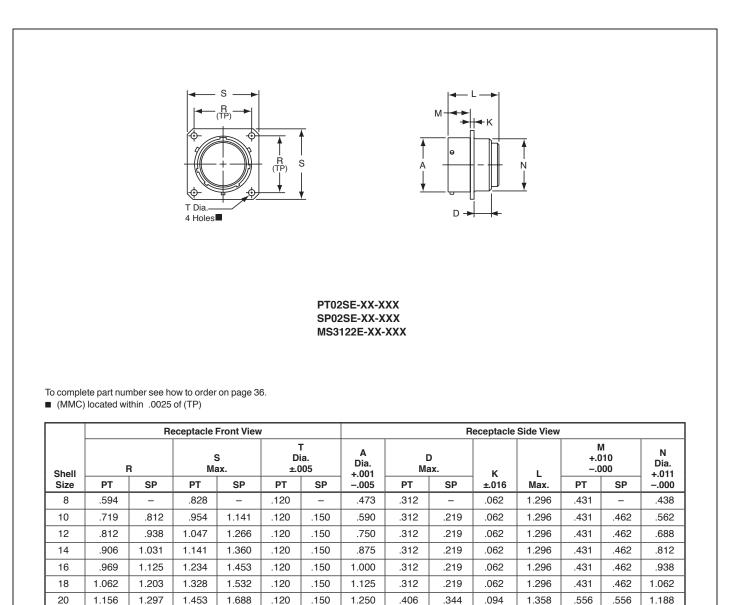
PT01 SE (MS3121) SP01 SE cable connecting receptacle



12 1.048 .750 .094 1.522 .813 .312 2.422 1.016 .558 1.656 .859 14 1.142 .875 .094 1.522 .930 .375 2.422 1.016 .558 1.656 .859 16 1.236 1.000 .094 1.522 1.057 .500 2.537 1.203 .808 1.656 1.11 18 1.329 1.125 .094 1.522 1.175 .625 2.537 1.469 .909 1.656 1.23 20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	Shell Size	S Max.	+.001 005	к ±.018	L Max.	Max.	Dia.	L Max.	N Max.	D Dia.	L Max.	Dia. Max.
12 1.048 .750 .094 1.522 .813 .312 2.422 1.016 .558 1.656 .859 14 1.142 .875 .094 1.522 .930 .375 2.422 1.016 .558 1.656 .859 16 1.236 1.000 .094 1.522 1.057 .500 2.537 1.203 .808 1.656 1.11 18 1.329 1.125 .094 1.522 1.175 .625 2.537 1.469 .909 1.656 1.23 20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	8	.812	.473	.094	1.522	.560	.125	2.422	.828	-	-	-
14 1.142 .875 .094 1.522 .930 .375 2.422 1.141 .683 1.656 .98 16 1.236 1.000 .094 1.522 1.057 .500 2.537 1.203 .808 1.656 1.111 18 1.329 1.125 .094 1.522 1.175 .625 2.537 1.469 .909 1.656 1.23 20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	10	.955	.590	.094	1.522	.685	.188	2.422	.891	.444	1.656	.734
16 1.236 1.000 .094 1.522 1.057 .500 2.537 1.203 .808 1.656 1.11 18 1.329 1.125 .094 1.522 1.175 .625 2.537 1.469 .909 1.656 1.23 20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	12	1.048	.750	.094	1.522	.813	.312	2.422	1.016	.558	1.656	.858
18 1.329 1.125 .094 1.522 1.175 .625 2.537 1.469 .909 1.656 1.23 20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	14	1.142	.875	.094	1.522	.930	.375	2.422	1.141	.683	1.656	.984
20 1.455 1.250 .115 1.709 1.301 .625 2.824 1.469 1.034 1.750 1.36 22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	16	1.236	1.000	.094	1.522	1.057	.500	2.537	1.203	.808	1.656	1.110
22 1.579 1.375 .115 1.709 1.428 .750 2.824 1.656 1.159 1.750 1.48	18	1.329	1.125	.094	1.522	1.175	.625	2.537	1.469	.909	1.656	1.234
	20	1.455	1.250	.115	1.709	1.301	.625	2.824	1.469	1.034	1.750	1.360
24 1.709 1.500 .115 1.709 1.555 .800 2.900 1.750 1.284 1.782 1.61	22	1.579	1.375	.115	1.709	1.428	.750	2.824	1.656	1.159	1.750	1.484
	24	1.709	1.500	.115	1.709	1.555	.800	2.900	1.750	1.284	1.782	1.610

PT02 SE (MS3122) SP02 SE

box mounting receptacle



1.375 All dimensions for reference only.

1.250

1.375

1.500

1.578

1.703

1.766

1.891

.120

.147

.150

.150

1.375

1.500

.406

.406

.344

.344

.094

.094

1.358

1.358

.556

.589

.556

.589

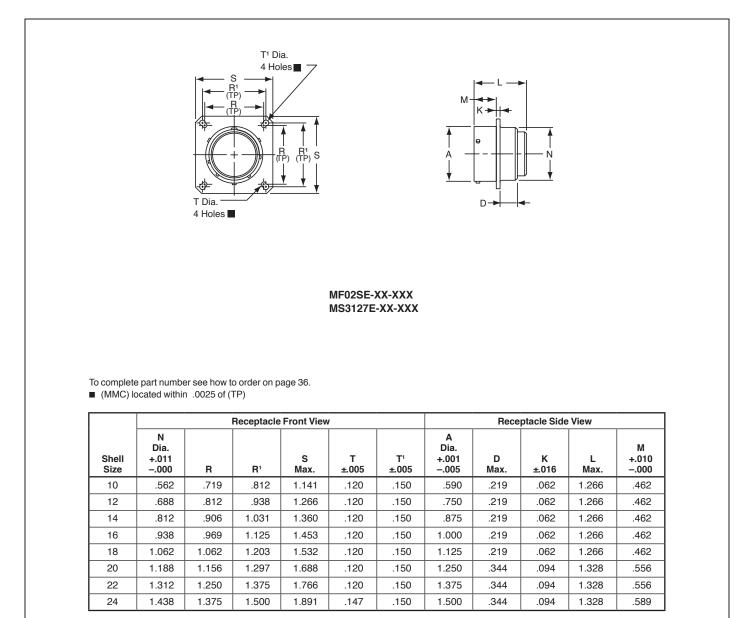
1.312

1.438

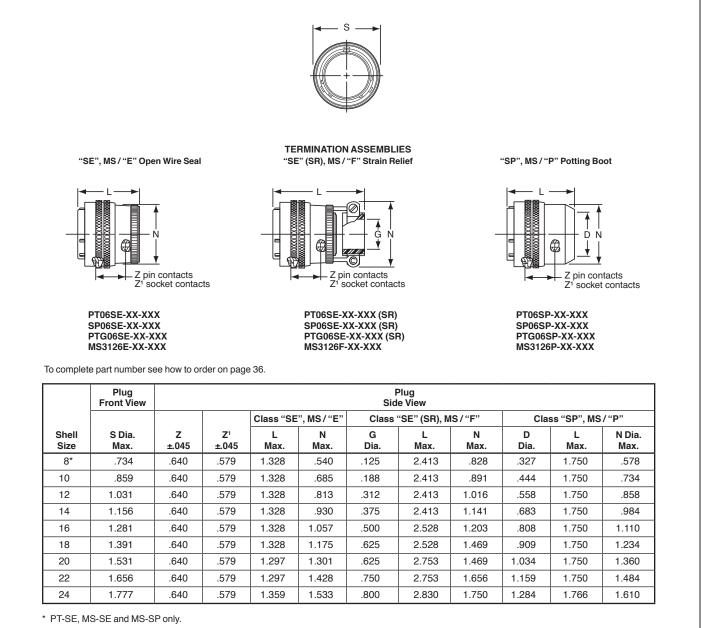
22

24

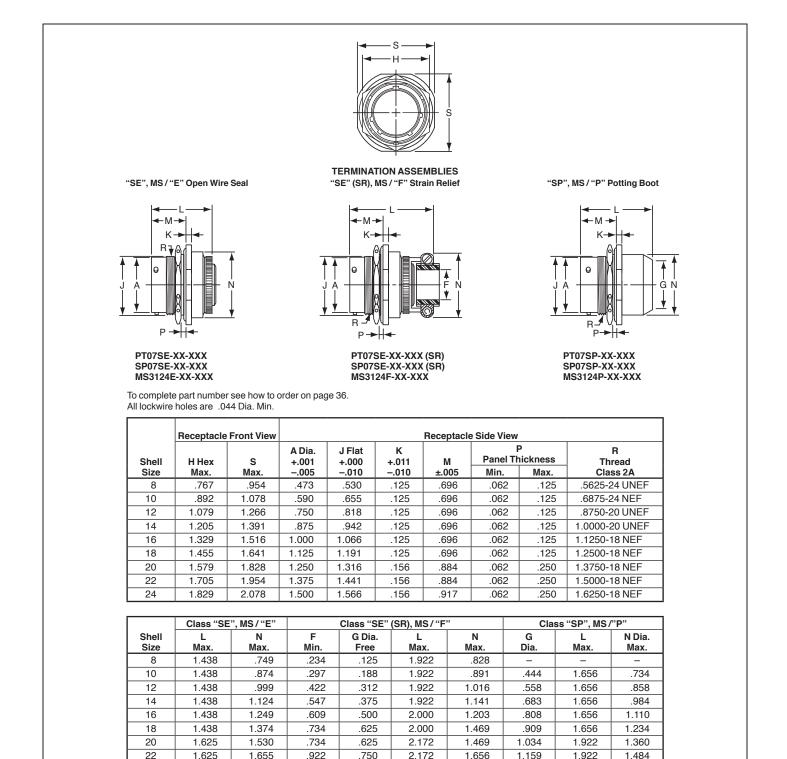
MF02 SE (MS3127) box mounting receptacle



PT06 SE (MS3126) SP06 SE straight plug



PT07 SE (MS3124) SP07 SE jam nut receptacle



All dimensions for reference only.

24

1.688

1.780

.984

2.234

1.750

1.284

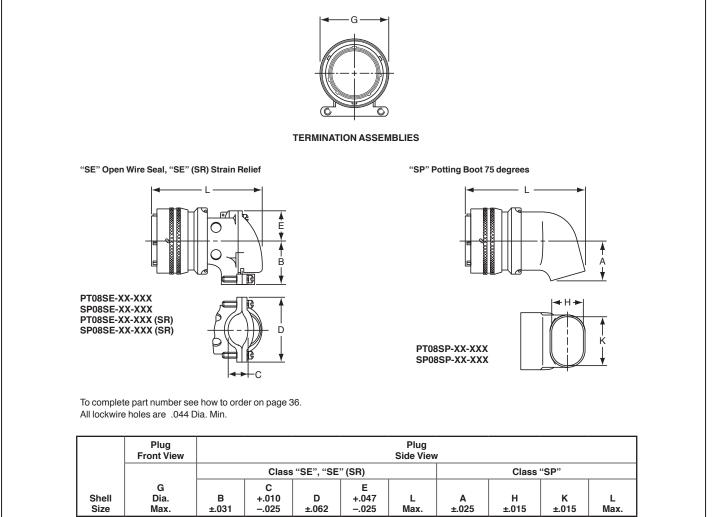
1.951

1.610

.800

Downloaded from Arrow.com.

PT08 SE SP08 SE 90 degree plug



	10	.921	.749	.170	1.191	.393	2.137	.547	.438	.562	2.031
Γ	12	1.046	.812	.264	1.191	.450	2.222	.625	.516	.688	2.093
Γ	14	1.171	.905	.310	1.254	.519	2.370	.734	.625	.781	2.203
	16	1.297	1.030	.330	1.316	.583	2.572	.750	.656	.890	2.250
Γ	18	1.422	1.015	.444	1.562	.621	2.680	.781	.703	1.000	2.296
Γ	20	1.562	1.077	.510	1.625	.683	2.753	.859	.766	1.125	2.343
	22	1.672	1.139	.515	1.719	.739	2.799	.906	.812	1.234	2.390
	24	1.797	1.250	.656	1.750	.787	3.037	1.181	.918	1.374	2.624

PT-SE, SP-SE, MS/PT-SE how to order

PT-SE, SP-SE

To more easily illustrate ordering procedure, part number PT00SE-20-41PW(SR) is shown as follows:

PT	00	SE -	20 -	41	Ρ	W	(SR)
1	2	3	4	5	6	7	8

See code below:

1. Connector Type

- "PT" designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with crimp contacts
- "MF" designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with dual mounting holes, and crimp contacts
- "SP" designates electrically non-conductive, hard anodic coated, bayonet lock connector with larger flange and mounting holes for back panel mounting, and crimp contacts
- "PTG" designates plug with grounding fingers
- 2. Shell Style
 - "00" designates wall mounting receptacle
 - "01" designates cable connecting receptacle*
 - "02" designates box mounting receptacle
 - "06" designates straight plug
 - "07" designates jam nut receptacle
 - "08" designates 90 degree plug
- 3. Service Classes
 - "SE" designates environmental crimp
 - "SP" designates potted type crimp
 - Both of the above are Amphenol proprietary versions of the MIL-DTL-26482, Series 1 crimp contact connector and offer 15 lbs. contact
 - retention for size 20 contacts; 25 lbs. for size 16 contacts.
 - "PG" designates adapter for cable gland for moisture proofing jacketed cables
- 4. Shell Size
 - "20" designates shell size. Shell sizes 8 through 24 available.
- 5. Insert Arrangement
 - Refer to pages 4-10 for insert availability.

"20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).

- 6. Contacts
 - "P" designates pin contacts
 - "S" designates socket contacts
- 7. Insert Rotation

Refer to page 6.

"W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal" position. No letter required for normal (no rotation) position.

- 8. "SR" designates a strain relief clamp.
 - Indicate optional finishes as follows:
 - (003) olive drab cadmium plate (standard on "PT") OR
 - Un Compliant finich cuffix ac
 - RoHS Compliant finish suffix as follow: (005) anodic coating - Alumilite® (standard on "SP")
 - (023) electroless nickel
 - (025) black zinc cobalt plating
 - (072) conductive gray zinc nickel plating
 - (424) electroless nickel finish with strain relief
 - (470) black zinc cobalt plating with strain relief



MS/PT-SE MIL-DTL-26482, Series 1

To more easily illustrate ordering procedure, part number MS3120E20-41PW is shown as follows:

MS	312	0	Е	20 -	41	Ρ	W
1	2	3	4	5	6	7	8

See code below:

- 1. "MS" designates Military Standard
- 2. Specification Number
 - "312" designates basic family for MIL-DTL-26482, Series 1 crimp type
- 3. Shell Style
 - "0" designates wall mounting receptacle
 - "1" designates cable connecting receptacle*
 - "2" designates box mounting receptacle
 - "4" designates jam nut receptacle
 - "6" designates straight plug
 - "7" designates box mounting receptacle with dual mounting holes
 - "8" designates wall mounting receptacle with dual mounting holes
- 4. Service Class
 - "E" designates environmental resisting connector
 - "F" designates environmental resisting connector with strain relief
 - "P" designates potted type with potting boot
- 5. Shell Size

6

"20" designates shell size. Shell sizes 8 through 24 available Insert Arrangement

Refer to pages 4-10 for insert availability. "20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).

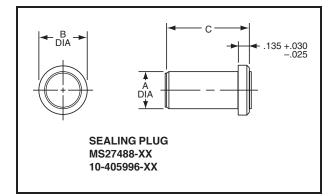
- 7. Contacts
 - "P" designates pin contacts
 - "S" designates socket contacts
- 8. Insert Rotation
- Refer to page 6.

"W", "X", "Y", "Z" designate that insert is rotated in its shell from the "normal" position. No letter required for normal (no rotation) position.

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

PT & SP

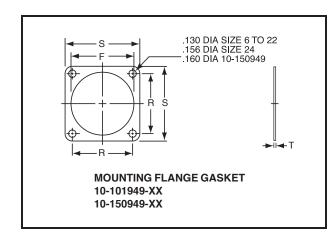
accessories – sealing plugs, flange gaskets, potting boots



SEALING PLUGS – FOR PT & SP

Contact Size	Amphenol◎ Part Number	MS Number	A Dia. ±.010	B Dia. ±.005	C ±.010	Color Code
12	10-405996-12	MS27488-12	.121	.171	.564	Yellow
16	10-405996-16	MS27488-16	.083	.133	.564	Blue
20	10-405996-20	MS27488-20	.060	.090	.564	Red

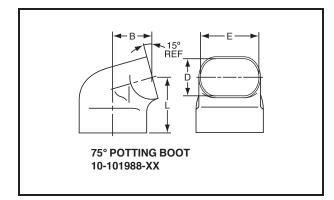
How to Order: Order by 10- (Proprietary) or MS part number as shown in chart above.



MOUNTING FLANGE GASKETS – FOR PT & SP

	PT 10-101949 R S ±.010 ±.010		-	SP 10-150949		k SP 1949 0949
Shell Size			R ±.010	S ±.010	F +.016 –.000	T ±.008
6	.469	.688	.641	.953	.375	.024
8	.594	.812	.734	1.047	.500	.024
10	.719	.938	.812	1.125	.625	.024
12	.813	1.031	.938	1.250	.750	.024
14	.906	1.125	1.031	1.344	.875	.024
16	.969	1.219	1.125	1.438	1.000	.024
18	1.063	1.312	1.203	1.516	1.125	.024
20	1.156	1.438	1.297	1.672	1.250	.024
22	1.250	1.563	1.375	1.750	1.375	.024
24	1.375	1.688	1.500	1.875	1.500	.024

How to Order: For PT: 10-101949-XX (complete order number with desired shell size). For SP: 10-150949-XX (complete order number with desired shell size).

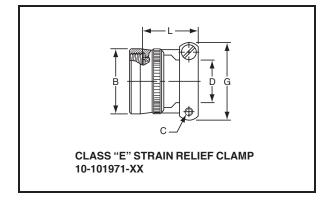


75° POTTING BOOTS - FOR PT & SP

Shell Size	B Max.	D ±.015	E ±.015	L Max.
8	.433	.312	.438	.766
10	.493	.438	.562	.830
12	.552	.516	.688	.861
14	.643	.625	.781	.916
16	.658	.656	.890	.936
18	.689	.703	1.000	.959
20	.750	.766	1.125	1.052
22	.794	.812	1.234	1.073
24	1 070	918	1.374	1.310

How to Order: 10-101988-XX (complete order number with desired shell size).

PT & SP accessories – clamps



CLASS "E" STRAIN RELIEF CLAMP - FOR PT & SP

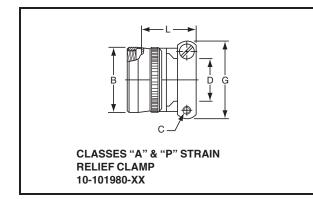
Shell Size	B Max.	C Thread Class 2B	D Min.	G Max.	L Max.
8	.550	6-32 NC	.240	.812	.930
10	.675	6-32 NC	.302	.875	.930
12	.803	6-32 NC	.428	1.000	.930
14	.920	6-32 NC	.552	1.125	.930
16	1.047	6-32 NC	.615	1.188	1.062
18	1.165	8-32 NC	.740	1.438	1.062
20	1.291	8-32 NC	.740	1.438	1.093
22	1.418	8-32 NC	.928	1.719	1.093
24	1.533	8-32 NC	.928	1.719	1.093

How to Order: 10-101971-XX X

Add desired _____ Add shell size "3" "5"

Add desired finish suffix[†] "3" designates olive drab cadmium "5" designates Alumilite®

Not for use with jam nut style connectors.



CLASSES "A" & "P" STRAIN RELIEF CLAMP - FOR PT & SP

Shell Size	B Max.	C Thread Class 2B	D Min.	G Max.	L +.010 –.020
8	.540	6-32 NC	.240	.812	.843
10	.665	6-32 NC	.302	.875	.843
12	.793	6-32 NC	.428	1.000	.843
14	.910	6-32 NC	.552	1.125	.843
16	1.037	6-32 NC	.614	1.188	.975
18	1.155	8-32 NC	.740	1.438	.975
20	1.281	8-32 NC	.740	1.438	1.007
22	1.408	8-32 NC	.928	1.719	1.007
24	1.533	8-32 NC	.938	1.719	1.007

How to Order: 10-101980-XX X Add desired

shell size

Add desired finish suffix⁺

"3" designates olive drab cadmium "5" designates Alumilite®

Not for use with jam nut style connectors.

CLASS "A" CABLE CLAMP 97-3057-XXXX

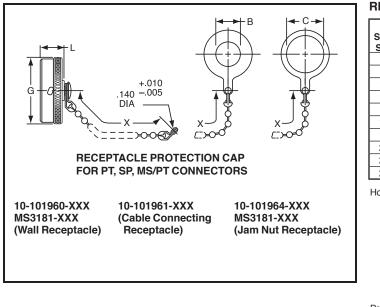
CLASS "A" CABLE CLAMPS - FOR PT & SP

Shell Size	Amphenol◎ Part Number	A ±.031	B Max.	C Dia. Min.	V Thread
Size	Part Number	±.031	IVIAX.	Dia. Milli.	Threau
10	97-3057-1004	.795	.842	.3125	.6250-24
12	97-3057-1007	.850	.995	.4375	.7500-20
14	97-3057-1008	.920	1.120	.5625	.8750-20
16	97-3057-1010	.920	1.216	.6250	1.0000-20
18/20	97-3057-1012	.927	1.403	.7500	1.1875-18
22/24	97-3057-1016	1.015	1.683	.9375	1.4375-18

How to Order: Order by 97-3057-XXXX number listed above. Standard finish is olive drab zinc alloy. Consult Amphenol, Sidney, NY for alternate finishes.

† Standard accessory finishes are "3" olive drab cadmium for PT and MS/PT types, "5" Alumilite® for SP types. Electroless nickel plating is also available on some items; consult Amphenol, Sidney, NY

PT, SP, MS/PT accessories – protection caps



RECEPTACLE PROTECTION CAPS – FOR PT, SP, MS/PT

Shell Size	B Dia. +.010 000	C Dia. +.010 000	G Dia. Max.	L +.020 –.000	X Std. & MS RA. CA. NA	X MS only RAL/CAL/NAL
6	.328	.454	.577	.563	3.000	5.000
8	.454	.578	.706	.563	3.000	5.000
10	.578	.703	.816	.563	3.000	5.000
12	.703	.891	1.000	.563	3.500	5.000
14	.844	1.016	1.128	.563	3.500	5.000
16	.969	1.141	1.257	.563	3.500	5.000
18	1.094	1.266	1.367	.563	3.500	5.000
20	1.219	1.391	1.496	.563	4.000	5.000
22	1.343	1.516	1.624	.563	4.000	5.000
24	1.453	1.614	1.747	.603	4.000	5.000

How to Order Proprietary Receptacle Caps:

Wall Receptacle Caps: Cable Connecting Receptacle Caps: Jam Nut Receptacle Caps:

10-101964- XX X

10-101960- XX X

10-101961- XX X

Add desired shell size _____

Add desired finish suffixt-

"FL" designates gray zinc nickel

"3" designates olive drab cadmium

"5" designates Alumilite®

Proprietary caps are supplied with standard bead chains only (as shown in drawing at left). For other chain options, an MS version cap should be ordered.

How to Order MS Version Receptacle Caps: Wall Receptacle Caps: MS3181- XX

MS3181- XX -CA for sash chain -CAL for long sash chain -RA for rope chain -RAL for long rope chain MS3181- XX -NA for sash chain

Jam Nut Recept. Caps: MS318

-NAL for long sash chain

Shell size-

MS versions are supplied with standard anodize finish only. For other finish options a proprietary cap should be ordered.

PLUG PROTECTION CAPS – FOR PT, SP, MS/PT

Shell Size	N Dia. +.001 –.005	L Dia. +.025 –.015	X Std. & MS CA, RA	X MS only CAL/RAL
6	.348	.532	3.000	5.000
8	.473	.532	3.000	5.000
10	.590	.532	3.000	5.000
12	.750	.532	3.500	5.000
14	.875	.532	3.500	5.000
16	1.000	.532	3.500	5.000
18	1.125	.532	3.500	5.000
20	1.250	.594	4.000	5.000
22	1.375	.594	4.000	5.000
24	1.500	.627	4.000	5.000

How to Order Proprietary Plug Caps: 10-101957-XX X

- Add desired shell size _____

"3" designates olive drab cadmium

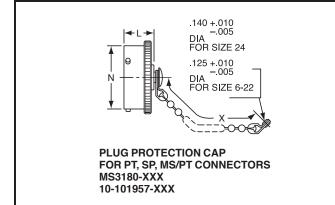
"5" designates Alumilite®

Proprietary caps are supplied with standard bead chains only (as shown in drawing at left). For other chain options an MS version cap should be ordered.

How to Order MS Version Plug Caps: MS3180- XX -CA for sash chain

Shell size _____

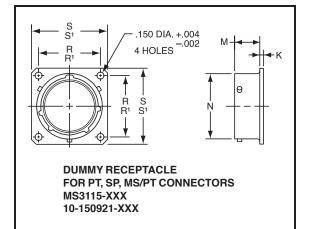
-CAL for long sash chain -RA for rope chain -RAL for long rope chain



† Standard accessory finishes are "3" olive drab cadmium for PT and MS/PT types, "5" Alumilite® for SP types. Electroless nickel plating is also available on some items; consult Amphenol, Sidney, NY

PT & SP

accessories – dummy receptacles, "O" rings, plastic dust caps



DUMMY RECEPTACLES - FOR PT, SP, MS/PT

		м	N	Proprietary Version		MS Ve	ersion
Shell Size	K ±.010	+.030 000	+.001 005	R ±.005	S ±.010	R ¹ (TP)	S ¹ (TP)
8	.062	.462	.473	.734	1.047	.594	.828
10	.062	.462	.590	.812	1.125	.719	.954
12	.062	.462	.750	.938	1.250	.812	1.047
14	.062	.462	.875	1.031	1.344	.906	1.141
16	.062	.462	1.000	1.125	1.438	.969	1.234
18	.062	.462	1.125	1.203	1.516	1.062	1.328
20	.062	.556	1.250	1.297	1.672	1.156	1.453
22	.062	.556	1.375	1.375	1.750	1.250	1.578
24	062	589	1 500	1 500	1 875	1 375	1 703

How to Order Proprietary Dummy Receptacles: 10-150921-XX X

Add desired shell size

- Add desired finish suffix[†] ______ "FL" designates gray zinc nickel
- "3" designates olive drab cadmium

"5" designates Alumilite®

5 designates / lamine

How to Order MS Version Dummy Receptacles: MS3115-XX X

- Add desired shell size
 - Add desired finish suffix[†] .
 - -A designates Alumilite®
 - -L designates electroless nickel
 - -W designates olive drab cadmium

PLASTIC DUST CAPS

FOR PT, SP

Shell Size	Plug Plastic Dust Cap	Receptacle Plastic Dust Cap
6	10-70500-8	10-70506-8S
8	10-70506-12	10-70506-10
10	10-70500-12	10-70506-12
12	10-70506-16	10-70506-14
14	10-70506-18	10-70506-16
16	10-70506-20	10-70506-18
18	10-70506-22	10-70506-20
20	10-70506-24	10-79506-22
22	10-70524-1	10-70506-24
24	10-70506-28	10-70524-1

How to Order Plastic Dust Caps:

To the basic order number add the dust cap size to match connector plug or receptacle shell size, as shown in the tables above. Example: 10-70506-12 would be the correct order number for a plastic dust cap for a PT00 receptacle,

All dimensions for reference only.

shell size 10.

PT accessories glands

Nylon Cable Glands

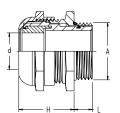
Material:	Nylon 66 (UL App	proved 94V-2)
Seal Ring:	UL 94V-2(UL App	proved 94V-2)
Thread Type:	Metric, PG, NPT	
Temp Range:	Static:	- 40°C ~ +100°C
	Dynamic:	- 20°C ~ + 80°C
	Short Term:	+120°C
Current Colors:	Gray, Black	

Metal Cable Glands

Material:	Brass with Nickel; Brass with Tin/Nickel
Clamping:	UL approved PA6, 94V-0
Seal Ring:	UL 94V-2 (UL approved NBR, 94V-2;UL approved
	DOW CORNING RUBBER, 94V-0
Thread Type:	Metric, PG, NPT
Protective:	IP68 (tighten with o-ring)
Temp Range:	- 40°C ~ +100°C

Torque Value (N-M) of hex and cap nuts: 3.0-4.5 N-M M12, M16, M20 are UL recognized under file # E339605





Nylon Cable Glands

AIGO Part	Thread "A"	Max "d"	Cable Range		Clamp "H"	
		(mm)	(mm)	(mm)	(mm)	(mm)
AIO-CSM12	M12x1.5	8	3 - 6.5	8	20	15
AIO-CSM16	M16x1.5	8	4 - 8	8	22	19
AIO-CSM18	M18×1.5	10	5 – 10	9	25	22
AIO-CSM20	M20×1.5	12	6 – 12	9	30	24
AIO-CSM22	M22×1.5	14	10 – 14	10	30	27
AIO-CSM24	M24×1.5	14	10 – 14	10	30	27
AIO-CSM25	M25x1.5	18	13 – 18	10	30	33
AIO-CSM30	M30×2.0	18	13 – 18	11	33	33
AIO-CSM32	M32×1.5	25	18 – 25	11	38	42
AIO-CSM33	M33×2.0	25	18 – 25	11	39	42
AIO-CSM40	M40×1.5	32	22 – 32	13	48	54
AIO-CSM50	M50×1.5	38	32 – 38	14	50	60
AIO-CSM72	M72×2.0	57	51 – 57	16	75	80
AIO-CSIN1/2	NPT1/2"	12	6 – 12	13.6	28	24
AIO-CSIN3/4	NPT3/4"	18	13 – 18	14.1	32	33
AIO-CSIN3/2	NPT1"1/2"	32	22 – 32	17.3	50	54
AIO-CSGIN1/2	G1/2"	12	6 – 12	9	26	24
AIO-CSGIN3/4	G3/4"	18	13 – 18	11	27	33
AIO-CSGIN1	G1"	25	18 – 25	11	33	42
AIO-CSGIN5/4	G1"1/4"	28	21 – 28	13	48	54
AIO-CSGIN3/2	G1"1/2"	32	22 - 32	13	48	54
AIO-CSGIN5/2	G2"1/2"	57	51 – 57	14	75	80
AIO-CSPG7	PG7	6.5	3-6.5	8	20	15
AIO-CSPG9	PG9	8	4 - 8	8	22	19
AIO-CSPG11	PG11	10	5 – 10	8	24	22
AIO-CSPG13.5	PG13.5	12	6 – 12	9	26	24
AIO-CSPG16	PG16	14	10 – 14	10	28	27
AIO-CSPG21	PG21	18	13 – 18	11	33	33
AIO-CSPG29	PG29	25	18 – 25	11	38	42
AIO-CSPG36	PG36	32	22 – 32	13	48	54
AIO-CSPG42	PG42	38	32 – 38	14	52	60

For additional information on other products available refer to our Cord Grips & Cable Glands, Catalog 12-055.



Metal Cable Glands

Inclai O		unuu				
AIGO Part	Thread "A"	Max "d" (mm)	Cable Range (mm)	Thread "L" (mm)	Clamp "H" (mm)	Spanner "S" (mm)
AIO-CSJM12	M12x1.5	6.5	3 - 6.5	6.2	15	14
AIO-CSJM14	M14x1.5	8	4 – 8	5	19	15
AIO-CSJM16	M16x1.5	9	6 – 9	6.3	20	18
AIO-CSJM18	M18x1.5	10	5 – 10	7	20	22
AIO-CSJM20	M20x1.5	12	6 – 12	8.3	20	22
AIO-CSJM22	M22×1.5	14	10 – 14	8	24	24
AIO-CSJM24	M24×1.5	14	10 – 14	8	24	27
AIO-CSJM25	M25x1.5	18	13 – 18	7.8	23	30
AIO-CSJM27	M27×2.0	18	13 – 18	8	26	30
AIO-CSJM30	M30×2.0	18	13 – 18	8	26	32
AIO-CSJM32	M32×1.5	25	18 – 25	10	27	40
AIO-CSJM36	M36×2.0	25	18 – 25	10	34	40
AIO-CSJM40	M40×1.5	32	22 – 32	10	39	50
AIO-CSJM50	M50×1.5	38	32 - 38	11	39	60
AIO-CSJM63	M63×1.5	44	37 – 44	12	43	67
AIO-CSJM72	M72×2.0	52	46 - 52	16	47	75
AIO-CSJM80	M80×2.0	60	52 - 60	20	57	90
AIO-CSJM90	M90×2.0	70	62 - 70	20	57	100
AIO-CSJIN1/2	NPT1/2"	12	6 – 12	13.6	25	24
AIO-CSJIN3/4	NPT3/4"	18	13 – 18	14.1	26	30
AIO-CSJIN5/4	NPT1"1/4"	32	22 - 32	17.3	41	50
AIO-CSJIN3/2	NPT1"1/2"	32	22 – 32	17.3	46	50
AIO-CSJIN2	NPT2"	44	37 – 44	17.7	46	65
AIO-CSJIN5/2	NPT2 1/2"	52	46 – 52	23.7	58	80
AIO-CSJIN3	NPT3"	70	62 – 70	26	58	100
AIO-CSJGIN1/2	G1/2"	12	6 – 12	8	24	24
AIO-CSJGIN3/4	G3/4"	18	13 – 18	8	27	30
AIO-CSJGIN1	G1"	25	18 – 25	10	34	40
AIO-CSJGIN5/4	G1"1/4"	32	22 – 32	10	39	50
AIO-CSJGIN3/2	G1"1/2"	32	22 – 32	10	39	50
AIO-CSJGIN2	G2"	44	37 – 44	12	44	65
AIO-CSJGIN5/2	G2 1/2"	52	46 - 52	16	47	82
AIO-CSJPG7	PG7	6.5	3 – 6.5	6	18	14
AIO-CSJPG9	PG9	8	4 – 8	7	21	18
AIO-CSJPG11	PG11	10	5 – 10	7	20	22
AIO-CSJPG13.5	PG13.5	12	6 – 12	8	24	22
AIO-CSJPG16	PG16	14	10 – 14	8	25	24
AIO-CSJPG21	PG21	18	13 – 18	8	26	30
AIO-CSJPG36	PG36	32	22 – 32	10	38	50
AIO-CSJPG42	PG42	38	32 – 38	11	42	60
AIO-CSJPG48	PG48	44	37 – 44	12	44	65

Application Tools "SE"

The following data includes information pertaining to the application tools for crimping, inserting and removing size 20, 16, and 12 contacts incorporated in Amphenol[®] Miniature Cylindrical Connectors.

All crimping tools included are the "full cycling" type, and when used as specified by the manufacturer, provide reliable crimped wire to contact termination.

Tool frames and turret heads are available from approved tool manufacturers; consult Amphenol, Sidney, NY for listings.

Assembly instructions are available online at www.amphenol-industrial.com

See the following:

L-786 for SE assembly instructions

L-555 for solder type instructions

CRIMPING TOOLS

FOR PT-SE, SP-SE, MS/PT-SE (MIL-DTL-26482, Series 1) Connectors

Contact	MS Tool Part Number									
Size	Tool Frame	Turret Head								
20	M22520/1-01	M22520/1-02								
16	M22520/1-01	M22520/1-02								
12	M22520/1-01	M22520/1-02								

INSERTION/REMOVAL TOOLS

FOR PT-SE, SP-SE, MS/PT-SE (MIL-DTL-26482, Series 1) Connectors

		Insertion Tool	Removal Tool				
Contact Size	Amphenol◎ Contact Insertion Pliers	Amphenol® Contact Insertion Tool	MS Part Number Contact Insertion Tool	Amphenol [∞] Contact Removal Tool	MS Part Number Contact Removal Tool		
20	11-8107-20	11-7401-20	M81969/17-03	11-7880-20	M81969/19-07		
16	11-8107-16	11-7401-16	M81969/17-04	11-7880-16	M81969/19-08		
12	_	-	M81969/17-05	-	M81969/19-09		

Contacts - Power and Thermocouple Crimp for miniature cylindrical connectors

The following tables provide part number information for crimp contacts used in Amphenol[®] Miniature Cylindrical Connectors. For additional information, consult Amphenol, Sidney, NY.

CRIMP CONTACTS for MIL-DTL-26482, Series 1 (PT-SE, SP-SE) Connectors

		Pi	ns	Sockets					
Contact Size	Accommodates Wire Size	MS Number	Amphenol [∞] Proprietary Number	MS Number	Amphenol [®] Proprietary Number				
20	20, 22 & 24 AWG	M39029/31-240	10-683787-20P	M39029/32-259	10-731210-3D1				
16	16, 18 & 20 AWG	M39029/31-228	10-683788-16P	M39029/32-247	10-679379-16D				
12	12 & 14 AWG	M39029/31-235	10-807100-125	M39029/32-254	10-807103-125				
20-16	16 AWG		10-330930-20F		10-807155-205				
16-20	20 AWG		10-330932-16F		10-330933-16F				
12-10	12 AWG		10-330938-12F		10-330939-12F				

THERMOCOUPLE CONTACTS for Miniature Connectors

		Pins Proprietary Part Number	Sockets Proprietary Part Number			
Size	Material	SE	SE			
16 Crimp	Chromel	10-330940-21P	10-330940-21S			
Termination	Alumel	10-330940-22P	10-330940-22S			
	Chromel	10-330940-1P	10-330940-1S			
20 Crimp	Alumel	10-330940-2P	10-330940-2S			
Termination	Iron	10-330940-3P	10-330940-3S			
	Constantan	10-330940-4P	10-330940-4S			

See L-776 for thermocouple contact termination instructions. These are online at www.amphenol-industrial.com

For PCB contacts for miniature connectors, see page 20.

Coaxial Contacts for miniature cylindrical connectors

Amphenol® Miniature Connectors can incorporate shielded coax contacts. The Miniature family is built around MIL-DTL-26482 specifications, with Milapproved and proprietary styles offered. Normal operating voltage for Miniature cylindricals with power only contacts is up to 1,000 VAC (RMS) at sea level.

Table 1: Miniature Cylindricals offer these features for contact termination

flexibility:

- Several insert arrangements that can incorporate:
 - Size 8 & 12 Crimp Coax contacts for Crimp type
 - Size 8 & 12 Solder Coax contacts for Solder type
- Wide selection of connector shell styles and sizes
- Standard power contact options within the various connector styles include: solder type, crimp front release, crimp rear release
- Coax contacts are designed to the same high performance standards as power contacts. Coax and power contacts may be intermixed with no degradation of connector reliability.
- No mis-mating or cross-plugging with insert rotation and keyway polarization.

Table 2: GENERAL ORDERING INFORMATION

Amphenol Miniature Cylindricals are normally supplied with a full complement of power contacts, separately packaged. Coax contacts are ordered by part number as referenced in the part number charts on the following pages of this catalog, and are substituted for the power contacts at the time of the cable or equipment assembly. If the application is for coax only, the connector may be ordered less contacts and no power contacts will be supplied.

Installation instructions for the coax contacts for Miniature Connectors are provided in Amphenol documents as follows: L-633 for solder type; L-613 for SE type.

HOW TO ORDER:

- A. Select the coax contacts designed for the cable being used from the applicable charts in this catalog for each Miniature type (solder, SE).
- B. Select a connector insert from those shown on pages 4-5 which will accommodate the quantity and size of coaxial contacts needed plus any power contacts required. Note: Size 8S and 12S contacts are used with connector inserts through shell size 18 only. For larger connector shell sizes, use size 8L contacts.
- C. Determine the Miniature Cylindrical type, shell style, finish, service class and insert rotation required for your application.
- D. Consult Amphenol, Sidney NY with the pertinent cable, contact, insert arrangement and connector style choices for complete connector part number.



Solder Coax Contact for use in Miniature Solder Type Connectors



Pin Crimp Coax Contact for use in Miniature Crimp SE Type Connectors



Socket Crimp Coax Contact for use in Miniature Crimp SE Type Connectors

Coaxial Contacts for miniature cylindrical connectors, cont.

Amphenole Coaxial Contacts designed for use in Miniature Cylindrical Connectors offer the same durability advantages and design benefits for reliable interconnection as the Amphenol coax contacts used in high performance D38999 connectors. A variety of military and commercial shielded cables are accommodated within the miniature cylindrical series. Amphenol supplies coax contacts for solder and crimp SE connector styles.

Other features of the coax for miniature cylindricals include:

- Miniature coax design has an outside nut within the assembly for fast, reliable assembly of contact to cable.
- All types feature solder style inner contacts and crimp style outer contacts for reliable cable termination
- Miniature coax crimp type contacts are designed for use in Miniature crimp series connectors
- Miniature coax solder type contacts are designed for use in Miniature solder series connectors. These come pre-installed into the solder connector.

TYPICAL ELECTRICAL PERFORMANCE Size 8 and 12 Coax Contacts

Contact Resistance:

Center @ 1 Amp, 170 millivolts max. voltage drop @ 25°C Outer @ 12 Amps, 150 millivolts max. voltage drop @ 25°C

Dielectric Withstanding Voltage:

Size 8: 1.300 VAC Rms @ sea level Size 12: 1,000 VAC Rms @ sea level Size 8 & 12: 250 VAC Rms @ 50,000 ft.

Insulation Resistance

5,000 megohms minimum @ 25°C

Typical VSWR for size 8 & 12 PT-SE Types II & III only:

1.2 + .12F (GHz) up to 10 GHz

EXPLANATION OF TYPE CLASSIFICATIONS:

PT-SE Type I is moisture seal design with internal O-ring.

PT-SE Type II is 50 ohm impedance matched version. Contacts terminated to other than 50 ohm cables are therefore not matched.

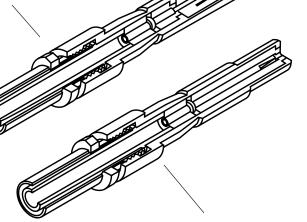
PT-SE Type III is 50 ohm contact, non-serviceable after assembly.

Solders are non-impedance matched contacts.

CONTACT FINISHES:

Suffix Finish

- 1 0.00020 min. silver over copper flash
- 2 3 0.00005 min. gold (Knoop hardness 130-200) over silver
- 0.00010 min. gold (Knoop hardness 130-200) over silver
- 4 0.00010 min. gold (Knoop hardness 130-200) over copper
- 0.00005 min. gold (Knoop hardness 130-200) over nickel 0.00005 min. gold (Knoop hardness 90 max.) over copper
- 5 E F 0.00005 min. gold (Knoop hardness 130-200) over copper
- Н 0.00010 min. gold (Knoop hardness 130-200) over copper



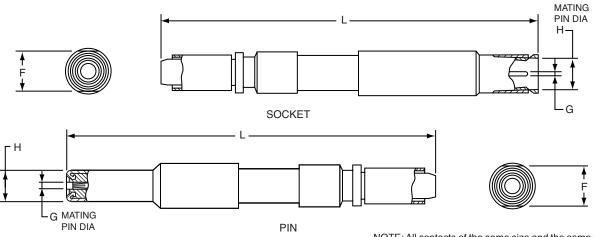
TYPICAL MINIATURE CRIMP COAX SOCKET CONTACT has crimp socket outer

contact with a solder pin inner contact

TYPICAL MINIATURE CRIMP COAX PIN CONTACT has crimp pin outer contact with a solder socket inner contact

Coaxial Contacts

for miniature cylindrical connectors, cont. solder (MIL-DTL-26482 Series 1 type) - application data



NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

			For use	in Miniat		LDER C			TS PT, SP, and MS/F	PT Styles			
	Contact Pa	art Number				nsional Da awings at				e			
Cable	Contact Pa	artinumber	Contact			F	L Length Ref.			Crimp Ferrule Too	15	Retainer	
Cable	Pin	Socket	Size	G Dia.	H Dia. ±0.001	Across Flats ±0.004	Pin	Socket	MIL-T-22910/7-1 Tool Use with Die Part Number	MIL-C-22520/5-01 MIL-C-22520/10-0 Tool Tool Use with Die Part Number Number		Wrench	
RG-58C/U, RG-141A/U, RG-303/U	21-33020-2	21-33019-2	85	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-15 (<i>B</i>)	M22520/5-05 <i>(B)</i> M22520/5-41 <i>(B)</i>	M22520/10-07 (<i>B</i>)	11-8676-2	
RG-59B/U, RG-62A/U,	21-33020-1	21-33019-1	8L	0.040 ± 0.001	0.219	0.280	1.176	1.177	M22040/7 49 (D)	M00500/5 45 (D)		11-8676-3	
RG-62B/U, RG-210/U	21-33020-3	21-33019-3	8S	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-18 (<i>B</i>)	M22520/5-45 (<i>B</i>)		11-8070-3	
RG-142B/U, Times MI51115	21-33020-7*	21-33019-7*	8S	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-16 (<i>B</i>)	M22520/5-43 (B)		11-8676-2	
RG-161/U, RG-174A/U, RG-179B/U, RG-187A/U, RG-188A/U, RG-316/U	21-33020-32*	21-33019-32*	12S	0.0300 ±0.0005	0.140	0.172	1.092	1.093	M22910/7-12 (<i>B</i>)	M22520/5-03 (A) M22520/5-08 (A) M22520/5-35 (B)	M22520/10-05 (A)	11-8676-1	
RG-178B/U	21-33020-4	21-33019-4*	8S	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-11 (B)	M22520/5-03 (B) M22520/5-33 (B)	M22520/10-05 (<i>B</i>)	11-8676-2	
RG-196A/U	21-33020-31†	21-33061- 31*†	12S	0.0300 ± 0.0005	0.140	0.172	1.092	1.093	M22910/7-11 (B)	M22520/5-03 (B) M22520/5-33 (B)	M22520/10-05 (B)	11-8676-1	
RG-180B/U, RG-195A/U, Raychem 5022D1312-9	21-33020-5*	21-33019-5*	8S	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-15 (<i>B</i>)	M22520/5-05 (<i>B</i>) M22520/5-41 (<i>B</i>)	M22520/10-07 (<i>B</i>)	11-8676-2	
Raychem 5021D1331-9	21-33020-6*	21-33019-6*	8S	0.040 ± 0.001	0.219	0.280	1.114	1.115	M22910/7-15 (B)	M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2	
Thermatics 2929-29	21-33020-33	21-33061-33	12S	0.0200 ± 0.0005	0.140	0.172	1.092	1.093	M22910/7-13 (B)	M22520/5-37 (B)		11-8676-1	

NOTE: Contacts can be ordered by part numbers given in chart

NOTE: Size 8S and 12S contacts are used with connector

inserts through shell size 18 only. For larger connector shell sizes, use size 8L contacts.

CONTACT FINISH: For all contacts in this series feature 0.000050 minimum gold (Knoop hardness 130-200).

* Consult Amphenol, Sidney NY for availability

CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

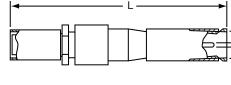
† 21-33020-31 and 21-33061-31 only mate with each other

Coaxial Contacts

for miniature cylindrical connectors, cont. crimp SE (MIL-DTL-26482 Series 1 type) - application data

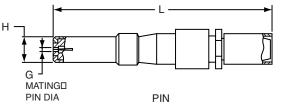
G





SOCKET





NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other

							SF C	RIMP	002		ONTACTS	iameters (G & H) wil				
		F	or use	in Mi	niatur	e Crim						, and MS/PT-S	SE Styles			
	Quele et De et Number						Dimensional Da (See Drawings at								Installat	tion Tools
Cable	Contact Pa	Contact Part Number		Туре	Finish on		н	F		L th Ref.	Crimp Ferrule Tools			Retainer - Nut		
Gabio	Pin	Socket	Size	1990	Mating Parts	G Dia.	п Dia. ±0.001	Across	Pin	Socket	MIL-T-22910/7-1 Tool Use with Die Part Number	MIL-C-22520/5-01 Tool Use with Die Part Number	MIL-C-22520/10-0 Tool Use with Die Part Number	Wrench	Insertion	Removal
RG-55B/U,	21-33012-21 21-33012-25	21-33011-21 21-33011-25	8 8	 	2											
RG-142A/U, RG-142B/U,	21-33038-21 21-33038-25*	21-33037-21 21-33037-25	8 8		4	0.0355 ±0.0010	0.218	0.280	1.156	1.144	M22910/7-17 (B)	M22520/5-05 (A) M22520/5-19 (B)	M22520/10-07 (A)	11-8676-2	11-8369-5 11-8660-5	
RG-223/U	21-33138-21()* 21-33138-25()*		8 8	 	**											
	21-33012-22 21-33012-26	21-33011-22 21-33011-26	8 8	 	2											
RG-58C/U, RG-141A/U, RG-303/U	21-33038-22* 21-33038-26*	21-33037-22 21-33037-26*	8 8		4	0.0355 ±0.0010	0.218	3 0.280	0 1.156	1.144		M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	
1000/0	21-33138-22()* 21-33137-22() 8 21-33138-26()* 21-33137-26()* 8		**													
RG-59B/U,	21-33012-36	21-33011-36	8	11	2	0.0355 - ±0.0010								11-8676-3	11-8369-5 11-8660-5	
RG-62A/U, RG-62B/U,	21-33038-36*	21-33037-36	8	11	4		0.218	0.280	1.156	1.144	M22910/7-18 (B)	M22520/5-45 (B)				
RG-026/0, RG-210/U	21-33138-36()*	21-33137-36()	8	11	**											
	21-33012-37* 21-33011-37* 8 II 2															
RG-140/U, RG-302/U	21-33038-37*	21-33037-37*	8	11	4	0.0355 ±0.0010	0.218	0.280	1.156	1.144	M22910/7-17 (B)	M22520/5-05 (A) M22520/5-19 (B)	M22520/10-07 (A)	11-8676-2	11-8369-5 11-8660-5	
10-302/0	21-33138-37()*	21-33137-37()*	8	11	**							WIZZ5Z0/5-19 (<i>B</i>)				
	21-33012-34 21-33012-30	21-33011-34 21-33011-30	8 8		2		0.218) 1.156					11-8676-2	11-8369-2	
	21-33038-34 21-33038-30	21-33037-34 21-33037-30	8 8		4	0.0355 ±0.0010		0.280		56 1.144						11-7880-8 11-8154-1
RG-161/U, RG-174A/U, RG-179B/U,	21-33138-34()* 21-33138-30()*		8 8		**						M00040/7 40 (D)	M22520/5-03 (A)				
RG-187A/U, RG-188A/U,	21-33012-1 21-33012-4	21-33011-1 21-33011-4	12 12	 	2						M22910/7-12 (<i>B</i>)	M22520/5-08 (A) M22520/5-35 (B)	M22520/10-05 (A)		11-8660-2	
RG-316/U	21-33038-1* 21-33038-4	21-33037-1* 21-33037-4*	12 12		4	0.0200 ±0.0005	0.128	0.172	1.092	1.072				11-8676-1		11-7880-12 11-8154-2
	21-33138-1()* 21-33138-4()*	21-33137-1() 21-33137-4()*	12 12		**											
	21-33012-35	21-33011-35	8	I	2											
	21-33038-35	21-33037-35	8	1	4	0.0355 ±0.0010	0.218	0.280	1.156	1.144				11-8676-2		11-7880-8
	21-33138-35()*	21-33137-35()*	8	I	**	1 10.0010										
RG-178B/U, RG-196A/U	21-33012-3* 21-33012-5	21-33011-3* 21-33011-5	12 12	 	2						M22910/7-11 (B)	M22520/5-03 (B) M22520/5-33 (B)	M22520/10-05 (A)		11-8369-1 11-8660-1	
	21-33038-3* 21-33038-5	21-33037-3* 21-33037-5*	12 12	 	4	0.0200 ± 0.0005	0.128	0.172	1.092	1.072		IVIZZU/0-00 (B)		11-8676-1	11-0000-1	11-7880-12 11-8154-2
	21-33138-3()* 21-33138-5()*	21-33137-3()* 21-33137-5()*	12 12		**											

See finish options for SE crimp Miniature contacts listed on page 44. Replace the parenthesis ** of the contact part number with the finish suffix number. However, you should consult Amphenol, Sidney, NY regarding the availability of all finish choices for each part number.

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dimension may be used. CHART CONTINUES ON NEXT PAGE

indicate applicable die closure. Commercial equivalents with the same die closure

* Consult Amphenol, Sidney NY for availability

Coaxial Contacts

for miniature cylindrical connectors, cont. crimp SE (MIL-MDL-26482 Series 1 type) - application data, cont.

NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

		Fo	or use	in M	iniatu	re Crim					NTACTS T-SE, SP-SE,	, and MS/PT-SE	Styles			
	Contact Pa	art Number				Dimensional Data				Crimp Ferrule Tools				Installa	tion Tools	
0-1-1-				Туре	Finish on			F	L Length Ref.					Retainer		
Cable	Pin	Socket	Size	21	Mating Parts	G Dia.	H Dia. ±0.001	Across Flats ±0.004	Pin	Socket	MIL-T-22910/7-1 Tool Use with Die Part Number	47MIL-C-22520/5-01 Tool Use with Die Part Number	MIL-C-22520/10-0 Tool Use with Die Part Number	. Nut Wrench	Insertion	Removal
	21-33012-24 21-33012-46*	21-33011-24 21-33011-46*	8 8	 	2											
RG-180B/U, RG-195A/U	21-33038-24 21-33038-46*	21-33037-24 21-33037-46*	8 8	 	4	0.0355 ± 0.0010	0.218	0.280	1.156	1.144	M22520/7-15 (<i>B</i>)	M22520/5-05 (<i>B</i>) M22520/5-41 (<i>B</i>)	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
	21-33138-24()* 21-33138-46()*		8 8	 	**											
Raychem 9527E1118, RG-180B/U, RG-195A/U	21-33106-40()	21-33105-40()	12	III	**	0.0200 ± 0.0005	0.128		0.899	0.879		els GS200 Tool with G2 D1 Tool with Positioner			11-8674- 12	11-7880-12 11-8154-2
	21-33012-6* 21-33012-7*	21-33011-6* 21-33011-7*	12 12	 	2											
RG-188 or RG-316 Double Braid	21-33038-6* 21-33038-7*	21-33037-6* 21-33037-7*	12 12	 	4	0.0200 ± 0.0005	0.128	0.172	1.092	1.072				11-8676-1		11-7880-12 11-8154-2
Double Braid	21-33138-6()* 21-33138-7()*	21-33137-6()* 21-33137-7()*	12 12	 	**					M22910/7-13 (B)	M22520/5-37 (B)					
Thermax	21-33012-44	21-33011-44	8	Ш	2	0.0355 ±0.0010									11-8369-4 11-8660-4	
50C-25A-	21-33038-44*	21-33037-44*	8	Ш	4		0.128	0.280	1.156	1.144				11-8676-2		
DS-1	21-33138-44()*	21-33137-44()*	8	Ш	**											
	21-33012-28	21-33011-28	8	Ι	2		0.128				M22910/7-16 (<i>B</i>) M22520/5-43 (<i>B</i>)					
RG-195 Double Braid	21-33038-28*	21-33037-28*	8	Ι	4	0.0355 ± 0.0010		0.280	1.156	1.144			11-8676-2	11-8369-4	11-7880-	
	21-33138-28()*	21-33137-28()*	8	Ι	**	1 0.0010									11 0000 4	11 0104 1
	21-33012-23 21-33012-27	21-33011-23 21-33011-27	8 8	 	2											
RG-122/U, Raychem 5022E5111	21-33038-23* 21-33038-27	21-33037-23* 21-33037-27	8 8	 	4											
002220111	21-33138-23()* 21-33138-27()*		8 8	 	**	0.0355 ±0.0010	0.218	0.280	1.156	1.144	M22520/7-15 (B)	M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2		11-7880-8 11-8154-1
_ .	21-33012-31	21-33011-31	8	I	2											
Raychem 9530D5314	21-33038-31	21-33037-31	8	Ι	4											
	21-33138-31()*	21-33137-31()*	8	Ι	**											
	21-33012-39	21-33011-39	8		2	0.005-										
Raychem 9527A1317	21-33038-39*	21-33037-39*	8	Ш	4	0.0355 ± 0.0010	0.218	0.280	1.156	1.144	M22910/7-15 (B)	M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	
	21-33138-39()*	21-33137-39()*	8	Ш	**											
Dauah	21-33012-40*	21-33011-40	8	II	2	0.0055						M22520/5-03 (A)			44,0000,0	44 7000 0
Raychem 7527A1318	21-33038-40*	21-33037-40*	8	Ш	4	0.0355 ±0.0010	0.218	0.280	1.156	1.144	M22910/7-12 (B)	M22520/5-08 (A)	M22520/10-05 (A)	11-8676-2		11-7880-8
	21-33138-40*	21-33137-40()*	8	Ш	**	± 0.0010						M22520/5-35 (B)				
Westrex	21-33012-43	21-33011-43	12		2											
199-49-1, Tensolite	21-33038-43	21-33037-43	12 12		4	0.0200 ±0.0005	0.128	0.172	2 1.092	1.072	M22910/7-11 (<i>B</i>)	M22520/5-03 (B) M22520/5-33 (B)	M22520/10-05 (B)	11-8676-1	11-8369-1 11-8660-1	11-7880-12 11-8154-2
30030/871-1	21-33138-43()*	∠1-0010 <i>1-</i> 40()"	12	11												

NOTE: Contacts can be ordered by part numbers given in chart

** See finish options for SE crimp Miniature contacts listed on page 44. Replace the parenthesis of the contact part number with the finish suffix number. However, you should consult Amphenol, Sidney, NY regarding the availability of all finish choices for each part number.

CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

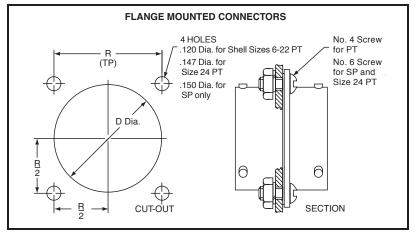
* Consult Amphenol, Sidney NY for availability

Mounting Recommendations for miniature cylindrical connectors

FLANGE MOUNTED CONNECTORS

All flange mounting PT connectors use standard MS mounting dimensions. They cannot be back panel mounted due to coupling clearance. The PTB (thru-bulkhead) type connector must also be back panel mounted on one side. Flange gaskets are available for both series, see page 37.

Shell	R (TP)		D Dia.	
Size	PT, PTB	SP	PT	SP, PTB
6	.469	.641	.323	.439
8	.594	.734	.449	.563
10	.719	.812	.573	.680
12	.812	.938	.699	.859
14	.906	1.031	.823	.984
16	.969	1.125	.949	1.108
18	1.062	1.203	1.073	1.233
20	1.156	1.297	1.199	1.358
22	1.250	1.375	1.323	1.483
24	1.375	-	1.449	_



JAM NUT MOUNTINGS

The jam nut design has become very popular because it allows bench wiring of harness assemblies. The labor saving often offsets the added cost of the jam nut receptacle which is due to the self contained "O" ring and the extra nut.

Shell	R +.010	B +.000	F	P Panel Thickness	
Size	000	010	±.010	Min.	Max.
6	.447	.420	.286	.062	.125
8	.572	.542	.331	.062	.125
10	.697	.669	.375	.062	.125
12	.884	.830	.442	.062	.125
14	1.007	.955	.486	.062	.125
16	1.134	1.084	.530	.062	.125
18	1.259	1.208	.573	.062	.125
20	1.384	1.333	.641	.062	.250
22	1.507	1.459	.685	.062	.250
24	1.634	1.575	-	.062	.250

HERMETIC RECEPTACLE MOUNTINGS

This series must be mounted in such a way as to preserve the

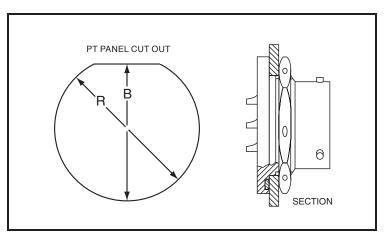
hermetic seal provided by the glass insert. Mounting data for box and jam nut receptacles is given above. Cut-out required for solder mounting receptacles (N) is given below.

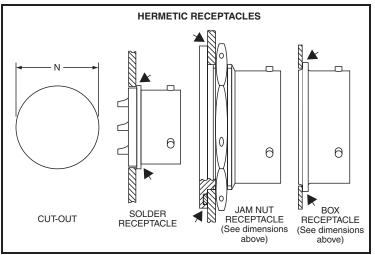
Shell Size	N Max.		
6	.458		
8	.582		
10	.692		
12	.801		
14	.926		
16	1.051		
18	1.176		
20	1.395		
22	1.375		
24	1.520		

The finish of each of these hermetic receptacles is fused electro-deposited tin for easy solderability, and protected by a special lacquer for optimum shelf life. The lacquer will not interfere with any soldering operation. Low temperature solder should be used

and the addition of a solder fillet at arrow points on drawing at right is recommended. Care must be taken that the operating temperature of the final assembly does not rise above the melting point of tin (440° F).

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Other Amphenol Miniature Cylindrical Connectors

Geophysical Miniature Cylindricals

Designed for the Geophysical industry's rugged environments, the Amphenol[®] RPT Series connector has custom features that provide reliability in extreme temperature and moisture conditions.

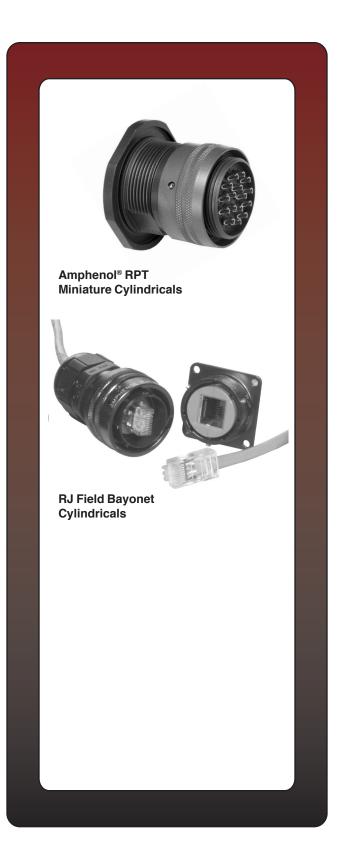
The unique shell design provides stronger shells along with an anodized (nonconductive) finish for greater salt, corrosion and abrasion resistance. Coupling nuts are manufactured with round detent holes and are sold separately for greater customer flexibility. See product data sheet #146.

RJ Field Bayonet Cylindricals

Amphenol PCD division provides MIL-DTL-26482 bayonet coupling cylindrical connectors with an RJ45 Ethernet interface*. These are designed for use in all levels of harsh environments from industrial to mil-aero applications providing IP67 protection from dust, fluids, vibration, shock and traction. The Amphenol® RJ Field allows the use of Ethernet Class D/Cat 5 and Cat 5e connections for 10 BaseT, 100 Base TX, or 1000 BaseT networks. It works with any standard RJ45 cordset with no extra tooling. It also offers reinforced EMI protection.

For more information go online to www.rjfield.com or ask for the Field Series brochure.

* RJ Field Bayonet and other Field Series products are available through Amphenol PCD. These include RJF TV within MIL-DTL-38999 Series III threaded coupling connectors, and RJF 544 within ECTA push-pull plastic shell coupling.





AMPHENOL CORPORATION Amphenol Industrial Phone: 888-364-9011

191 Delaware Avenue Sidney, NY 13838-1395 www.amphenol-industrial.com

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