Amphenol[®] Cylindrical Connectors for Printed Circuit Board Applications

12-170-2







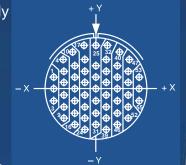


This catalog has been specifically designed to assist in the critical process of selecting the right cylindrical connector for a printed circuit board application.

Contact arrangements have been carefully selected to guide designers to the most commonly available and widely used insert patterns.

Pin-out location illustrations of these contact insert patterns are shown first, followed by connector shell drawings in three series:

MIL-DTL-38999, MIL-C-26482, MIL-5015.





For more information on the wide variety of PC tail contacts that are offered by Amphenol, see catalog 12-130, High Frequency Contacts, which also includes coax, twinax, triax and quadrax shielded contacts.

Amphenol Corporation

Amphenol Aerospace 40-60 Delaware Avenue, Sidney, New York 13838-1395 Phone: 800-678-0141 or 607-563-5011 Fax: 607-563-5157 www.amphenol-aerospace.com



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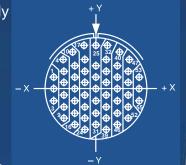


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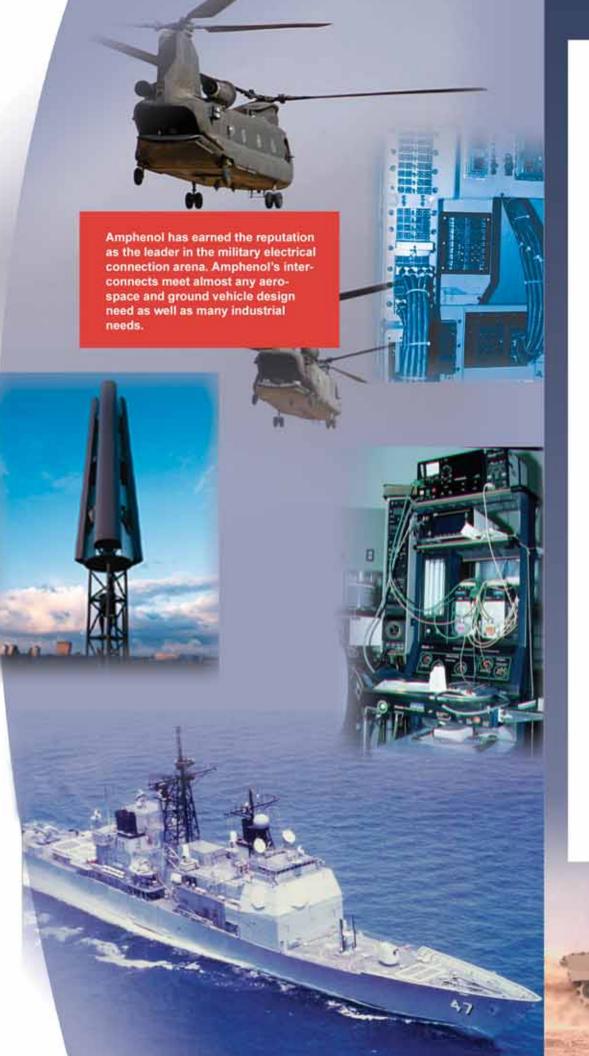


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Amphenol operates quality systems that are certified to ISO9001:2000 by third party registrars.



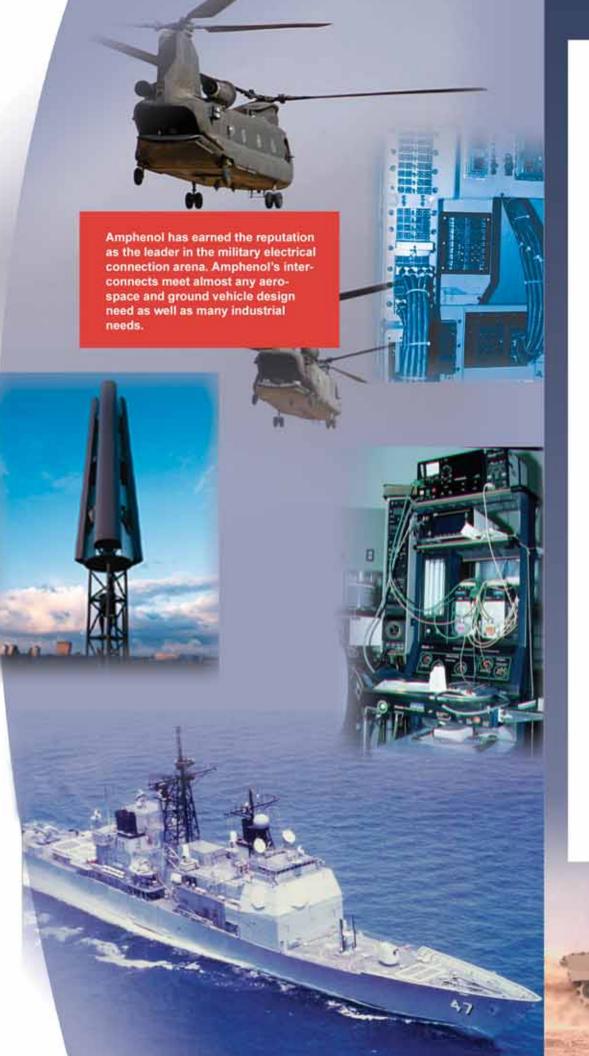


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Amphenol *Cylindrical Connectors for Printed Circuit Board Applications

Amphenol provides three popular connector series with PC tail contacts. The following key points give a quick overview of these series. For more detail, there are series catalogs available as listed below*. Go to **www.amphenol-aerospace.com** to view and download these catalogs. There is a guide to selecting a cylindrical connector with printed circuit board contacts on the following page to assist you further.

MIL-DTL-38999 CONNECTORS, METAL & COMPOSITE

- Lightweight, compact, high density and high reliability cylindrical
- Operating voltage to 900 VAC (RMS) at sea level
- Environmentally resistant
- Solder or crimp rear release contacts in mating plug
- · Series I (LJT) Bayonet coupling
- Scoop-proof (recessed pins) offers maximum contact protection
- Series II (JT) Bayonet coupling
- For applications requiring maximum weight/space savings and reliability
- Series III (Tri-Start) Threaded, quick coupling in one complete turn
- Designed for general duty as well as severe environmental applications
- Superior EMI shielding with grounding fingers and metal-to-metal mating
- Filter/Transient protection versions available
- Scoop-proof contact protection
- Stainless steel firewall versions, and composite versions

MIL-C-26482 CONNECTORS

- Medium size, widely used cylindrical
- Operating voltage to 1,000 VAC (RMS) at sea level
- Series 1 (PT) Bayonet coupling most commonly used in PCB applications
- Environmentally resistant
- Solder or crimp front and rear release contacts in mating plug Black/green zinc alloy plating (cadmium-free) available

MIL-5015 CONNECTORS

- Medium—heavy weight, time-tested cylindrical
- Operating voltage to 1,500 VAC (RMS) at sea level
- Environmentally resistant or general duty
- Threaded coupling
- Solder or crimp rear insertion contacts in mating plug
- Black/green zinc alloy plating (cadmium-free) available

Also provided in this catalog are several additional product options for the designer of PCB board applications. For example: Amphenol's flex assemblies provide solutions for attachment to PCB boards where a self-locking terminal pad is needed or in tight-fitting space requirements. Connectors with compliant pin contacts are available, and pc tails within shielded coax, twinax and triax contacts are available. At the end of the catalog, see a brief description of Amphenol PCB rectangular connectors, backplane assemblies, terminal blocks and wiring interface modules.

Go to www.amphenol-aerospace for catalogs online.



38999 Series III Box Mount Connector



Special 38999 Connector with Stand-off Shell and PC Tails



38999 Series III Connector with a Special Configuration Composite Shell and PC



26482 Series 1 Jam Nut Connector with PC Tails



5015 Box Mount Connector with PC Tails



Flex Termination with MIL-C-26482 Special Connector

* Request Catalog 12-090 for MIL-DTL-38999 Series I, II Request Catalog 12-092 for MIL-DTL-38999 Series III Request Catalog 12-070 for MIL-C-26482, Series 1, 2 Request Catalog 12-071 for Matrix MIL-C-26482 Series 2 Request Catalog 12-020 for MIL-5015

Note: MIL-DTL-38999 supersedes MIL-C-38999.

1

Amphenol® Cylindrical Connectors for Printed Circuit Board Applications

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- Superior EMI shielding with grounding fingers and metal-to-metal mating
- Filter/Transient protection versions available
- Scoop-proof contact protection
- Stainless steel firewall versions, and composite versions

MIL-C-26482 CONNECTORS

- Medium size, widely used cylindrical
- Operating voltage to 1,000 VAC (RMS) at sea level
- Series 1 (PT) Bayonet coupling most commonly used in PCB applications
- Environmentally resistant
- Solder or crimp front and rear release contacts in mating plug Black/green zinc alloy plating (cadmium-free) available

MIL-5015 CONNECTORS

- Medium—heavy weight, time-tested cylindrical
- Operating voltage to 1,500 VAC (RMS) at sea level
- Environmentally resistant or general duty
- Threaded coupling
- Solder or crimp rear insertion contacts in mating plug
- Black/green zinc alloy plating (cadmium-free) available

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Note: MIL-DTL-38999 supersedes MIL-C-38999.



Guide to Selecting a PCB Cylindrical Connector

The connector selection process is one of the most important engineering decisions to be made in any electronic application. Amphenol has created this catalog specifically to provide the necessary information to select, layout and design both the appropriate Amphenol® cylindrical connector with PCB contacts and the connector footprint (contact locations) on the printed circuit board. The guide that follows is for application of cylindrical connectors on rigid printed circuit boards and also applies if a flex print assembly or other optional is being used.

Engineers working on those PCB or flex print applications requiring rectangular connectors are encouraged to refer to page 46-48 and ask for Amphenol Rectangular Product catalogs.

How To Select a Cylindrical Connector for a PCB Application

The data provided in this catalog is based on three cylindrical connector series: MIL-DTL-38999 Series I, II and III, MIL-C-26482 Series 1, and MIL-C-5015. See page 1 for electrical and environmental features and differences of these three series. The "hot" side of the application determines the choice of pin or socket genders of the contacts.

How to Measure the PCB Tail Length

The tail length of the PCB is the portion of the contact that extends beyond the rear of the shell. This length will vary in relationship to the mounting flange, depending on the series of connector selected. Standard lengths are shown on the connector shell style drawings in this

catalog. These shell style drawing pages also provide how to order part numbering for standard PCB cylindrical connectors.

When computing the desired tail length, it is important to take into consideration the following factors:

- The connector series and shell style.
- The mounting style of the receptacle; jam nut (D hole) or panel mount (four holes). This can affect the overall length of the tail.
- The extension of the tail beyond the opposite side of the board or the flex.
- The space required to adequately clean flux from between the board or flex and the rear
 of the connector shell. Connectors that are mounted flush against the board may trap
 soldering flux which could lead to corrosion of the solder joints.

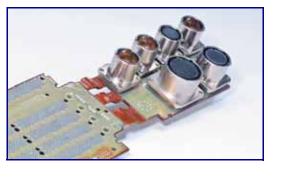
Would Alignment Discs, Headers or Special Stand-off Shells be Beneficial?

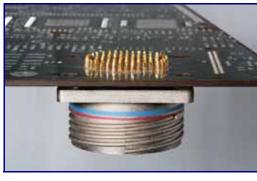
Any mechanical methods needed to stabilize the board or flex to the connector and/or the panel. The PCB tails shown in this catalog are of one diameter. Stepped tails or PCB tails with an increased diameter on a designated portion may be required for certain applications.

Alignment discs are available which provide ease of alignment of pins to boards, protection during shipment and optimized electrical circuit separation. Header assemblies (see pages 44 & 45) are available which provide time and cost saving potentials. Standoffs may be required for certain applications. Amphenol has developed a new stand-off adapter (see page 40) which may eliminate the need for special stand-off shell designs. Connectors with clinch nuts can be provided. Please call Amphenol to discuss any optional designs or any special requirements.



Special Design with Longer PC Tails in a 38999 Composite Shell Connector. Also shows an Alignment Disc.







Stand-off Adapter on a Jam Nut Receptacle.



Universal Header Assemblies are available for Flex Print/PC Board Mounting. Beneficial especially when electrical testing of the connector requires it to be removed and reattached.

Guide to Selecting a PCB Cylindrical Connector, cont.

What Determines the Diameter of the PCB Tail?

The outside diameter of the PCB tail is determined by the inside diameter of the plated through-hole on the board or flex print. The standard or most popular diameters are shown in the chart on the next page and are called out in the connector illustrations in this catalog.

Standard diameters of PCB tails

Connector Series	Size 16 Contact	Size 20 Contact	Size 22D Contact
MIL-DTL-38999	.062 ±.001	.019 ±.001	.019 ±.001
MIL-C-26482	.030 ±.001	.030 ±.001	Not available
MIL-5015	.030 ±.001	Not available	Not available

For availability of other contact diameters, consult Amphenol, Sidney NY.

Should PCB Tails be Gold Plated or Pre-tinned?

The standard PCB tails for MIL-DTL-38999 and MIL-C-26482 receptacles have gold plating, .00050 inches over nickel. PCB tails for MIL-C-5015 receptacles are plated with silver, .00010 inches over copper. Amphenol can substitute a pre-tinned version of these tails to facilitate the termination process. This pre-tinning is a 60/40 lead-tin alloy. Call Amphenol for further information on pre-tinning and any other plating of contacts not covered in this catalog.

Would Flex Assemblies be Necessary or Beneficial for the Application?

Flex print can radically simplify the assembly of a connector to a system, as well as eliminate wiring errors. Amphenol offers connector flex assemblies through ACT, Advanced Circuit Technologies division. Features and benefits of using flex technology include:

- Available for MIL-DTL-38999 (including filter EMI/EMP types), MIL-5015 and MIL-C-26482 cylindrical connectors
- Sculptures® Flexible Circuits with built-in terminations
- Eliminates failures associated with crimped or solder-on contacts
- Geometrically fit tight space requirements and create a self-locking terminal pad

Should Other PC Tail Contact Types be Considered?

Press-Fit Connectors with compliant pins are available which engage the plated through-holes in the board without the need for soldering. This optional contact style offers the following benefits:

- Improved board processing time
- Excellent temperature performance
- Ideal for low-lead applications

For more information on Press-Fit connectors with compliant pins refer to Amphenol data sheet #188.

Special Quadrax contacts have been designed with PC tails. Coax, twinax and triax contacts can also have PC tails. Refer to Amphenol catalog 12-130. Go online at www.amphenol-aerospace.com or consult Amphenol Aerospace for further information.



Flex Termination for Attachment to PC Boards



Compliant Pin Contacts in a Bayonet 38999 Catalog



Quadrax PC Tail Contacts Combined with Standard PC Tail Contacts



Quadrax Contacts with PC Tails in a 38999 Connector with Special Stand-off Shell

Cylindrical Connectors with PCB contacts insert availability

The following table lists the most commonly used insert arrangements for printed circuit board application of MIL-DTL-38999, MIL-C-26482 and MIL-C-5015 cylindrical connectors. This represents the most readily available patterns within these series. See illustrations of these selected patterns on the following pages. If you require other arrangements than what are shown here, consult Amphenol for further availability.

	MIL-DTL-38999)					Co	ntact Si	ze*
JT Series II	LJT Series I	Tri-Start Series III	MIL-C-26482	MIL-5015	Service Rating	Total Contacts	22D	20	16
8-3	9-3		8-3		M/I	3		3	
8-35	9-35	9-35			М	6	6		
8-98	9-98	9-98	8-98		ı	3		3	
				10SL-3	Α	3			3
10-5	11-5	11-5	10-5		ı	5		5	
	11-6		10-6		ı	6		6	
10-35	11-35	11-35			М	13	13		
12-3	13-3		12-3		II	3			3
			12-10		ı	10		10	
12-35	13-35	13-35			М	22	22		
				14S-6	Inst.	6			6
14-18	15-18	15-18	14-18		ı	18		18	
14-19	15-19	15-19	14-19		ı	19		19	
14-35	15-35	15-35			М	37	37		
				16S-1	Α	7			7
16-26	17-26	17-26	16-26		ı	26		26	
16-35	17-35	17-35			М	55	55		
				18-1	A/Inst.	10			10
18-11	19-11	19-11	18-11		II	11			11
18-32	19-32	19-32	18-32		ı	32		32	
18-35	19-35	19-35			М	66	66		
				20-11	Inst.	13			13
20-27	21-27		20-27		I	27		27	
20-35	21-35	21-35			М	79	79		
20-41	21-41	21-41	20-41		ı	41		41	
				22-14	Α	19			19
22-35	23-35	23-35			М	100	100		
22-55	23-55	23-55	22-55		ı	55		55	
				24-5	Α	16			16
				24-28	Inst.	24			24
24-31			24-31		1	31			31
24-35	25-35	25-35			М	128	128		
24-61	25-61	25-61	24-61		1	61		61	
				28-15	Α	35			35

^{*} For information on size 12 PC tail contacts consult Amphenol Aerospace.

Insert Arrangement #8-3 / 9-3

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	8-3	9-3	NA	8-3	NA

Contact Locations Front face of pin insert shown	Number of	Contact	Service
	Contacts	Size	Rating*
	3	20	M/I
.079018056056		rice Rating: M for M	IIL-DTL-38999
	S *Serv	I for MII	L-C-26482

Insert Arrangement #8-35 /9-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	8-35	9-35	9-35	NA	NA

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	6	22D	М
.045	Q090		

Insert Arrangement #8-98 / 9-98

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	8-98	9-98	9-98	8-98	NA

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	3	20	I
.075038038065065065	- − .065		

Insert Arrangement #10SL-3

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	NA	NA	NA	10SL-3

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	3	16	Α
.053 C A	G091		

Insert Arrangement #10-5 / 11-5

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	10-5	11-5	11-5	10-5	NA

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
<u>e</u>	5	20	I
.130 ————————————————————————————————————	056 056 065		

Insert Arrangement #10-6 / 11-6

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	11-6	NA	10-6	NA

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	6	20	I
.130 F	.065	– &	

Insert Arrangement #10-35 / 11-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	10-35	11-35	11-35	NA	NA

Contact Locations Front face of pin insert shown	Ģ	Number of Contacts	Contact Size	Service Rating
	.138	13	22D	M
.146	0.085 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_ ↓	.045	46 Q

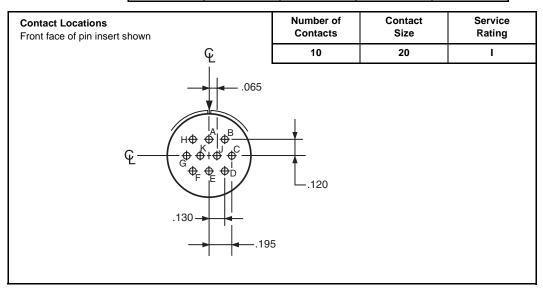
Insert Arrangement #12-3 / 13-3

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015	
Insert Designation:	12-3	13-3	NA	12-3	NA	

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	3	16	II
.111	⊕A		

Insert Arrangement #12-10

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	NA	NA	12-10	NA



Insert Arrangement #12-35 / 13-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	12-35	13-35	13-35	NA	NA

Contact Locations Front face of pin insert shown	<u>Ģ</u>	Number of Contacts	Contact Size	Service Rating
	.182	22	22D	М
.120	45	.088	.107	158

Insert Arrangement #14S-6

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	NA	NA	NA	14S-6

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
Q	6	16	Inst.
$\begin{array}{c c} & & & & & & & \\ & & & & & & & \\ \hline & & & & & & \\ & & & & & & \\ & & & & & &$.160	- ©	

Insert Arrangement #14-18 / 15-18

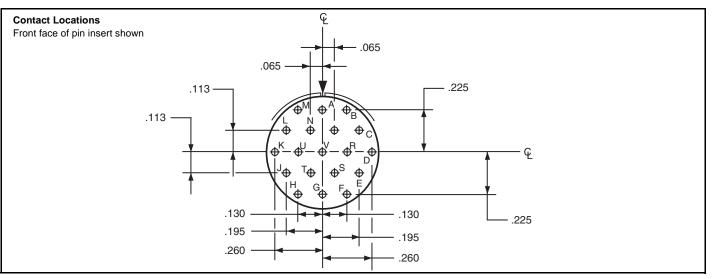
Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	14-18	15-18	15-18	14-18	NA

Contact Locations Front face of pin insert shown	Number of Contacts	Contact Size	Service Rating
	18	20	1
.260	0	.252	

Insert Arrangement #14-19 / 15-19

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	14-19	15-19	15-19	14-19	NA

Number of Contacts	Contact Size	Service Rating
19	20	I



Insert Arrangement #14-35 / 15-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	14-35	15-35	15-35	NA	NA

Number of Contacts	Contact Size	Service Rating
37	22D	М

+.170

+.170

+.123

-.045

-.123

-.123

-.045

+.045

+.090

-.045

23

31

32

Location
X Axis Y Axis

+.040

-.050

-.127 -.172 -.172

-.127

-.050 +.040

+.119

+.172

+.074

-.004 -.082 -.082 -.004

+.074

Contact Locations	Cont	act noie Local	
Front face of pin insert shown	Contact	Loca	ation
Total lade of part moore enemal	Number	X Axis	Y Axis
	1	+.045	+.262
	2	+.123	+.217
+ Y	3	+.211	+.160
₩	4	+.254	+.080
	5	+.266	010
♦ ♦ ♦	6	+.247	098
() () () () () () () () () ()	7	+.200	175
	8	+.130	232
- ^ 1 (1) 	9	+.045	262
() () () () () () () () () ()	10	045	262
	11	130	232
+ + + + + + + + + + + + + + + + + + +	12	200	175
(A) A	13	247	098
<u> </u>	14	266	010
- Y	15	254	+.080
	16	211	+.160
	17	123	+.217
	18	045	+.262
	19	+.045	+.172
	20	+.123	+.119

All dimensions for reference only. For alternate rotations see pages 25 & 26. Note: Shown in this catalog are the most common insert patterns for

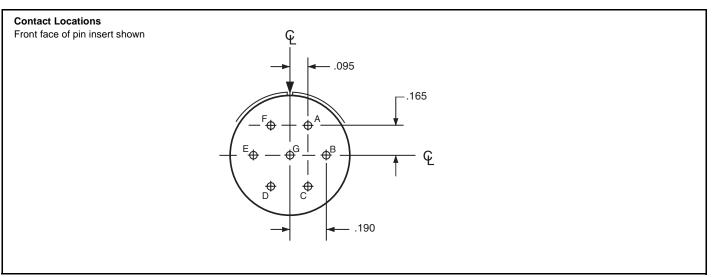
PCB applications. For availability of other arrangements, consult Amphenol

Insert Arrangement #16S-1

Connector Type:	
Insert Designation:	ŀ

JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
NA	NA	NA NA	NA	16S-1

Number of Contacts	Contact Size	Service Rating
7	16	Α

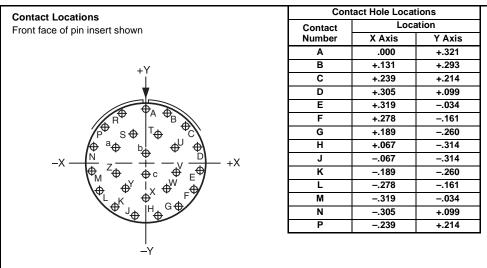


Insert Arrangement #16-26 / 17-26

Connector	ype.
Insert Desigr	nation:

JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
NA	17-26	17-26	16-26	NA

Number of Contacts	Contact Size	Service Rating
26	20	I



Contact Number Location X Axis Y Axis -.131 +.293 -.070 +.177 +.070 +.177 +.175 +.094 -.036 +.178 -.151 +.119 -.203 -.151 -.178 -.036 -.175 +.094 .000 +.065 -.065

Insert Arrangement #16-35 / 17-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	16-35	17-35	17-35	NA	NA

Number of Contacts	Contact Size	Service Rating	
55	22D	М	

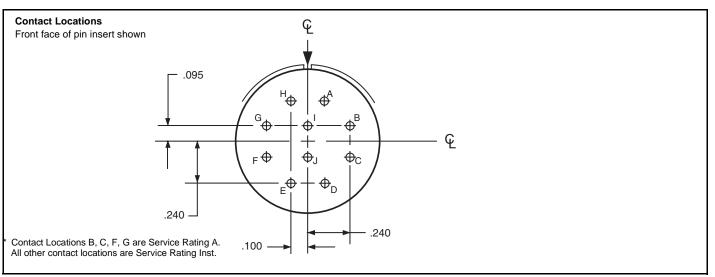
Contact Locations	Cont	act Hole Loca	tions	Cont	act Hole Locat	ions
Front face of pin insert shown	Contact Location		ation	Contact	Loca	ition
Tronciaco di pin modre dilonni	Number	X Axis	Y Axis	Number	X Axis	Y Axis
	1	312	+.086	32	+.089	+.316
	2	312	004	33	+.078	+.221
	3	312	094	34	+.078	+.131
+ Y	4	242	+.221	35	+.078	+.041
₩	5	234	+.131	36	+.078	049
	6	234	+.041	37	+.078	139
	7	234	049	38	+.078	229
	8	234	139	39	+.078	319
	9	234	229	40	+.172	+.279
	10	172	+.279	41	+.156	+.176
$-\times - \left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	156	+.176	42	+.156	+.086
\\\phi\ \Phi\ \Phi	12	156	+.086	43	+.156	004
$\nabla_{\theta} \Phi \Phi \Phi \Phi \Phi \Phi$	13	156	004	44	+.156	094
	14	156	094	45	+.156	184
2240 3130 400	15	156	184	46	+.156	274
	16	156	274	47	+.242	+.221
-Y	17	089	+.316	48	+.234	+.131
	18	078	+.221	49	+.234	+.041
	19	078	+.131	50	+.234	049
	20	078	+.041	51	+.234	139
	21	078	049	52	+.234	229
	22	078	139	53	+.312	+.086
	23	078	229	54	+.312	004
	24	078	319	55	+.312	094
	25	.000	+.329			
	26	.000	+.176			
	27	.000	+.086			
	28	.000	004			
	29	.000	094			
	30	.000	184			
	31	.000	274			
dimensions for reference only. For alternate rotations see pages						

Insert Arrangement #18-1

Connector Type:	JT MIL-DTL-38999 Series II	MIL
Insert Designation:	NA	

JT	LJT	Tri-Start		
MIL-DTL-38999	MIL-DTL-38999	MIL-DTL-38999	MIL-C-26482	
Series II	Series I	Series III	Series 1 & 2	MIL-5015
NA	NA	NA	NA	18-1

Number of Contacts	Contact Size	Service Rating*
10	16	A/Inst.

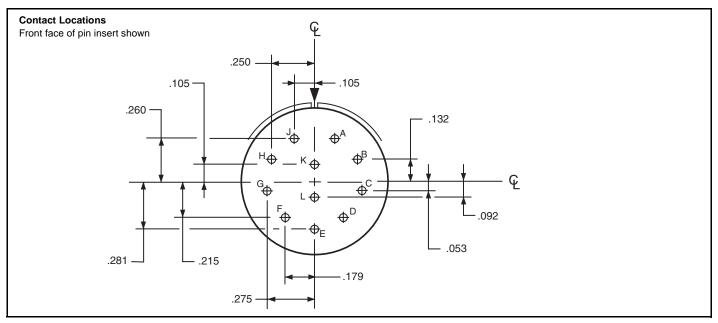


Insert Arrangement #18-11 / 19-11

Connector Type:	MIL-DTL Serie
Insert Designation:	18-

JT	LJT	Tri-Start		
MIL-DTL-38999	MIL-DTL-38999	MIL-DTL-38999	MIL-C-26482	
Series II	Series I	Series III	Series 1 & 2	MIL-5015
18-11	19-11	19-11	18-11	NA

Number of Contacts	Contact Size	Service Rating
11	16	II



Insert Arrangement #18-32 / 19-32

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	18-32	19-32	19-32	18-32	NA

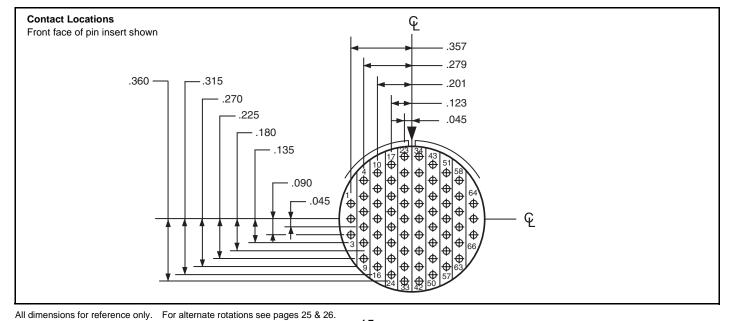
nnector Type:	MIL-DTL-38999 Series II	MIL-DTL-38999 Series I	MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015	Number of Contacts	Contact Size	Servi Ratir
ert Designation:	18-32	19-32	19-32	18-32	NA	32	20	I
ntact Locations			Con	tact Hole Location	ons	Contac	t Hole Locat	ions
nt face of pin insert s	shown		Contact	Locat	ion	Contact	Loca	tion
in lace of pill incort			Letter	X Axis	Y Axis	Letter	X Axis	Y Axi
	+ Y		Α	+.066	+.353	V	+.124	+.193

Contact Locations	Contact Hole Locations		Contact Hole Locations				
Front face of pin insert shown	Contact	Location		Contact	Loca	Location	
•	Letter	X Axis	Y Axis	Letter	X Axis	Y Axis	
+ Y	Α	+.066	+.353	٧	+.124	+.193	
	В	+.189	+.305	W	+.209	+.095	
↓	С	+.286	+.217	Х	+.228	033	
	D	+.345	+.098	Υ	+.174	151	
T\Phi \Phi_A	Е	+.357	033	Z	+.065	221	
S^{Ψ} V V_{B}	F	+.321	160	а	065	221	
$R^{\bigoplus_{e} \bigoplus_{\Phi} \bigoplus_{\Phi} \bigvee_{\Phi} \bigoplus_{C}}$	G	+.242	265	b	174	151	
1	Н	+.130	335	С	228	033	
/P d* . ; . *" D/	J	.000	359	d	209	+.095	
$-X \xrightarrow{\bigoplus_{N \in \mathbb{N}} \bigoplus_{j} \bigoplus_{i} \bigoplus_{j} \bigoplus_{j$	K	130	335	е	124	+.193	
\mathbf{V}_{i}	L	242	265	f	.000	+.096	
$\left(\begin{array}{cccc} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}\right)$	М	321	160	g	+.096	.000	
I	N	357	033	h	.000	096	
$ \bigoplus_{L} \bigoplus_{K} \bigcup_{H} \bigoplus_{G} G $	Р	345	+.098	j	096	.000	
	R	286	+.217	-			
	S	189	+.305				
_'Y	Т	066	+.353				
'	U	.000	+.230				

Insert Arrangement #18-35 / 19-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015	Number of Contacts	Contact Size	
Insert Designation:	18-35	19-35	19-35	NA	NA	66	22D	Г

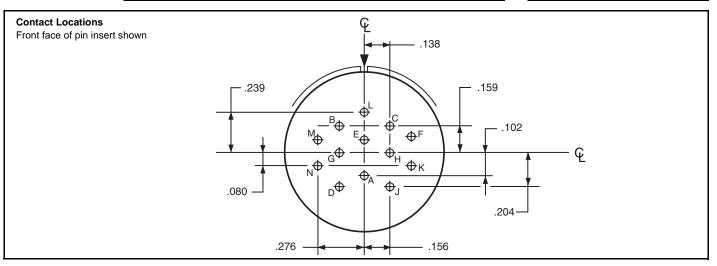
Rating



Insert Arrangement #20-11

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	NA	NA	NA	20-11

Number of Contacts	Contact Size	Service Rating
13	16	Inst.

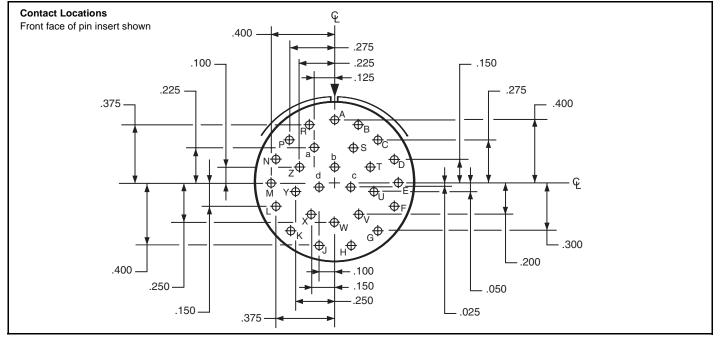


Insert Arrangement #20-27 / 21-27

Connector Type:
Insert Designation:

JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
20-27	21-27	NA	20-27	NA

Number of Contacts	Contact Size	Service Rating
27	20	I



Number 10

Insert Arrangement #20-35 / 21-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	20-35	21-35	21-35	NA	NA

Number of Contacts	Contact Size	Service Rating
79	22D	M

Contact Hole Locations

Location

Contact Locations Front face of pin insert shown
-X - Y - Y - Y - Y - Y - Y - Y - Y - Y -

Contact Number

		l l
14	+.053	426
15	053	426
16	146	404
17	232	362
18	306	302
19	365	227
20	406	141
21	427	048
22	427	+.048
23	406	+.141
24	365	+.227
25	306	+.302
26	232	+.362
27	146	+.404
28	053	+.426
29	.000	+.323
30	+.098	+.322
31	+.184	+.280
32	+.258	+.220
33	+.311	+.141
34	+.332	+.048
35	+.332	048
36	+.311	141
37	+.258	220
38	+.184	280
39	+.098	322
40	.000	347
41	098	322
42	184	280
43	258	220
44	311	141

Contact Hole Locations

+.365

+.306

+.232

Location

X Axis Y Axis

-.227

-.302

-.362

Number	X Axis	Y Axis
45	332	048
46	332	+.048
47	311	+.141
48	258	+.220
49	184	+.280
50	098	+.322
51	048	+.241
52	+.048	+.241
53	+.134	+.199
54	+.208	+.139
55	+.237	+.048
56	+.237	048
57	+.208	139
58	+.134	199
59	+.048	241
60	048	241
61	134	199
62	208	139
63	237	048
64	237	+.048
65	208	+.139
66	134	+.199
67	048	+.146
68	+.048	+.146
69	+.125	+.090
70	+.155	.000
71	+.125	090
72	+.048	146
73	048	146
74	125	090
75	155	.000
76	125	+.090
77	.000	+.053
78	+.048	029
79	048	029

All dimensions for reference only. For alternate rotations see pages 25 & 26.

Note: Shown in this catalog are the most common insert patterns for PCB applications.

For availability of other arrangements, consult Amphenol Corp., Sidney, NY.

X Axis +.053

+.232

+.306

+.365

+.427

+.406

+.426

+.362

+.302

+.227

+.048

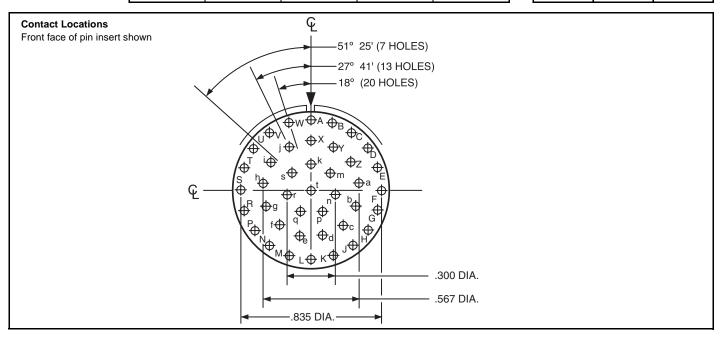
-.048

-.141

Insert Arrangement #20-41 / 21-41

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	20-41	21-41	21-41	20-41	NA

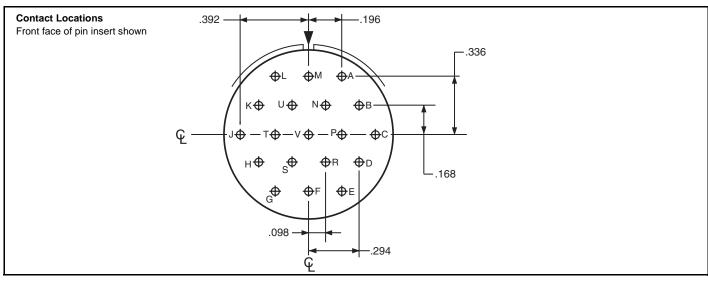
Number of Contacts	Contact Size	Service Rating
41	20	I



Insert Arrangement #22-14

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA NA	NA	NA NA	NA NA	22-14

Number of Contacts	Contact Size	Service Rating
19	16	Α



Contact Number

Insert Arrangement #22-35 / 23-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	22-35	23-35	23-35	NA	NA

Number of Contacts	Contact Size	Service Rating
100	22D	М

Contact Locations Front face of pin insert shown
-X $-X$ $-X$ $-X$ $-X$ $-X$ $-X$ $-X$

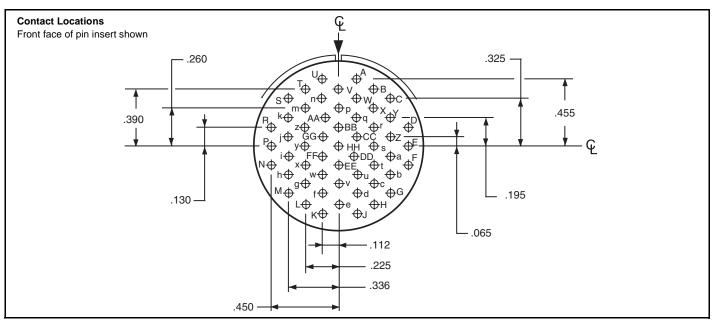
Contact Hole Locations Ontact umber							
Contact Hole Locations Under Hole Location X Axis Y Axis 1	_	19 1001			34	166	-
Contact Hole Locations Under Table 1 Contact Hole Location Unmber X Axis Y Axis 1		- Y			35	083	+
Contact Hole Locations Untact Location Unmber X Axis Y Axis 1					36	083	4
Contact Hole Locations Unified Test Service Se					37	083	4
Contact Hole Locations Contact number Location X Axis Y Axis 1 428 +.241 2 467 +.154 3 488 +.061 4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 17 249 +.285 18 249 +.285					38	083	+
Contact umber Location X Axis Y Axis 1 428 +.241 2 467 +.154 3 488 +.061 4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 047 13 332 142 14 332 237 15 332 332 15 332 332 16 249 +.380 17 249 +.285 17 249 +.285 18 249 +.285				, [39	083	4
Official District Axis Y Axis 41 083 1 428 +.241 42 083 2 467 +.154 43 083 3 488 +.061 44 083 4 415 .000 45 083 4 415 .000 45 083 4 415 .000 45 083 4 415 .000 46 .000 4 428 142 48 .000 4 083 46 .000 47 .000 47 .000 48 .000 49 .000 50 .000 50 50 50 .000 50 50 51 .000 50 50 52 .000 50 50 53 .000 50 54 .000 50	Con				40	083	
1 428 +.241 2 467 +.154 3 488 +.061 4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 19 +.083					41	083	-
2 467 +.154 3 488 +.061 4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 19 +.083 59 +.083			_		42	083	-
3 488 +.061 4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285					43	083	-
4 415 .000 5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 249 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285 19 041 46 .000 48 .000 50 .000 51 .000 52 .000 53 .000 54 .000 55 .000 56 +.083 57 +.083 58 +.083 59 +.083			_		44	083	-
5 488 061 6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 247 15 332 332 16 249 +.380 17 249 +.285 18 042 18 249 19 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249 10 249			+.061		45	083	-
6 428 142 7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 247 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285 59 +.083	4	415	.000		46	.000	4
7 428 237 8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 247 15 332 332 16 249 +.380 17 249 +.285 19 049 +.285 19 049 +.285	5	488	061		47	.000	-
8 332 +.333 9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 247 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285 50 .000 51 .000 52 .000 53 .000 54 .000 55 .000 56 +.083 57 +.083 58 +.083 59 +.083	6	428	142		48	.000	-
9 332 +.238 10 332 +.143 11 332 +.048 12 332 047 13 332 142 14 332 247 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285 50 .000 52 .000 53 .000 54 .000 55 .000 56 +.083 57 +.083 58 +.083 59 +.083	7	428	237		49	.000	-
10 332 +.143 11 332 +.048 12 332 +.047 13 332 047 14 332 142 15 332 237 16 249 +.380 17 249 +.285 18 249 +.285 51 .000 52 .000 53 .000 54 .000 55 .000 56 +.083 57 +.083 58 +.083 59 +.083	8	332	+.333		50	.000	4
11 332 +.048 12 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 18 249 +.249 +.285 59 +.083	9	332	+.238		51	.000	-
11 332 +.048 12 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 18 249 +.285 19 249 +.083 19 249 +.083	10	332	+.143		52	.000	_
12 332 047 13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 48 249 +.083 59 +.083	11	332	+.048		53	.000	-
13 332 142 14 332 237 15 332 332 16 249 +.380 17 249 +.285 48 249 +.285 59 +.083	12	332	047	1 -			_
14 332 237 15 332 332 16 249 +.380 17 249 +.285 48 249 +.285 59 +.083	13	332	142	1 -			-
15 332 332 16 249 +.380 17 249 +.285 48 249 +.285 59 +.083	14	332	237	1 -	56		
16 249 +.380 17 249 +.285 48 249 +.083 59 +.083	15	332	332	1 -			-
17249 +.285 59 +.083	16	249	+.380	1 -			-
19 240 + 100	17	249	+.285	1 ⊢			
	18	249	+.190	1 -			-
	.0	243	T.130	ı [60	+.083	

Con	tact Hole Locat	ions		Con	tact Hole Locat	ions	
tact	Loca	ation		Contact	Location		
ber	X Axis	Y Axis		Number	X Axis	Y Axis	
9	249	+.095		61	+.083	.000	
0	249	.000		62	+.083	095	
1	249	095		63	+.083	190	
2	249	190		64	+.083	285	
3	249	285		65	+.083	380	
4	249	380		66	+.083	475	
5	166	+.428		67	+.166	+.428	
6	166	+.333		68	+.166	+.333	
7	166	+.238		69	+.166	+.238	
В	166	+.143		70	+.166	+.143	
9	166	+.048		71	+.166	+.048	
0	166	047		72	+.166	047	
1	166	142		73	+.166	142	
2	166	237		74	+.166	237	
3	166	332		75	+.166	332	
4	166	427		76	+.166	427	
5	083	+.475		77	+.249	+.380	
6	083	+.380		78	+.249	+.285	
7	083	+.285		79	+.249	+.190	
В	083	+.190		80	+.249	+.095	
9	083	+.095		81	+.249	.000	
0	083	.000		82	+.249	095	
1	083	095		83	+.249	190	
2	083	190		84	+.249	285	
3	083	285		85	+.249	380	
4	083	380		86	+.332	+.333	
5	083	475		87	+.332	+.238	
6	.000	+.428		88	+.332	+.143	
7	.000	+.333		89	+.332	+.048	
8	.000	+.238		90	+.332	047	
9	.000	+.143		91	+.332	142	
0	.000	+.048		92	+.332	237	
1	.000	047		93	+.332	332	
2	.000	142		94	+.428	+.241	
3	.000	237		95	+.467	+.154	
4	.000	332		96	+.488	+.061	
5	.000	427		97	+.415	.000	
6	+.083	+.475		98	+.488	061	
7	+.083	+.380		99	+.428	142	
8	+.083	+.285		100	+.428	237	
9	+.083	+.190]				
0	+.083	+.095]				
			-				

Insert Arrangement #22-55 / 23-55

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015	
Insert Designation:	22-55	23-55	23-55	22-55	NA	

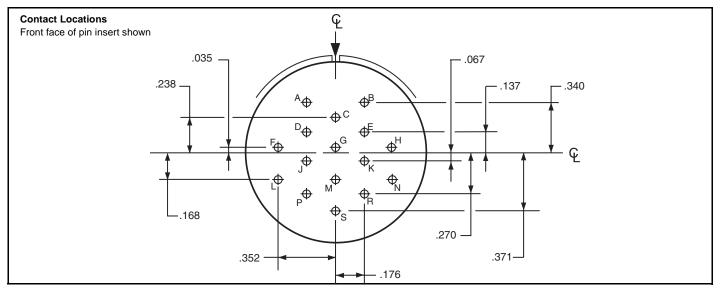
Number of Contacts	Contact Size	Service Rating
55	20	I



Insert Arrangement #24-5

	JT	LJT	Tri-Start		
Connector Type:	MIL-DTL-38999	MIL-DTL-38999	MIL-DTL-38999	MIL-C-26482	
	Series II	Series I	Series III	Series 1 & 2	MIL-501
Insert Designation:	NA	NA	NA	NA	24-5

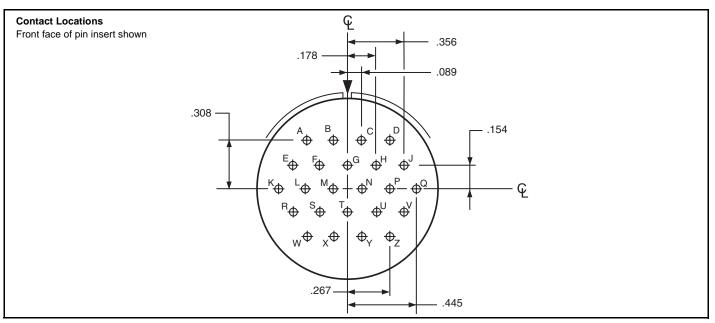
Number of Contacts	Contact Size	Service Rating
16	16	Α



Insert Arrangement #24-28

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	NA	NA	NA	NA	24-28

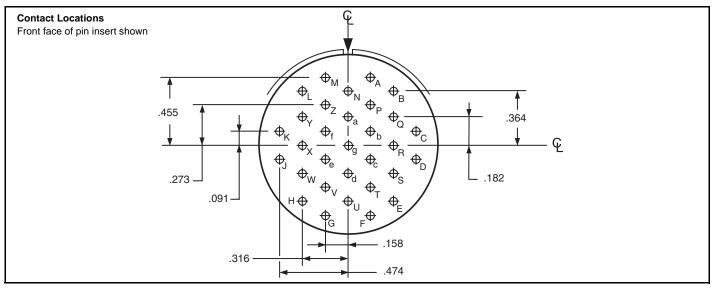
Number of Contacts	Contact Size	Service Rating
24	16	Inst.



Insert Arrangement #24-31 / 25-31

Connector Type:	JT MIL-DTL-38999	LJT MIL-DTL-38999	Tri-Start MIL-DTL-38999	MIL-C-26482	
	Series II	Series I	Series III	Series 1 & 2	MIL-501
Insert Designation:	24-31	NA	NA	24-31	NA

Number of Contacts	Contact Size	Service Rating
31	16	I



X Axis Y Axis

-.160 +.531

-.166 +.047

-.047

-.249 -.249 -.249 -.249 -.249 -.249

-.166

-.166

Insert Arrangement #24-35 / 25-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	24-35	25-35	25-35	NA	NA

Number of Contacts	Contact Size	Service Rating
128	22D	М

<u> </u>
Contact Locations Front face of pin insert shown + Y
- X - + + + + + + + + + + + + + + + + +

4/ 3/	° + °' 93		44	100	231
_	4		45	166	332
	- Y		46	166	427
	•		47	166	522
Cont	tact Hole Locat	tions	48	083	+.475
Contact	Loca	ation	49	083	+.380
Number	X Axis	Y Axis	50	083	+.285
1	479	+.279	51	083	+.190
2	520	+.190	52	083	+.095
3	546	+.095	53	083	.000
4	555	.000	54	083	095
5	546	095	55	083	190
6	520	190	56	083	285
7	479	279	57	083	380
8	424	+.357	58	083	475
9	415	+.190	59	.000	+.522
10	415	+.095	60	.000	+.427
11	415	.000	61	.000	+.332
12	415	095	62	.000	+.237
13	415	190	63	.000	+.142
14	424	357	64	.000	+.047
15	332	+.444	65	.000	047
16	332	+.332	66	.000	142
17	332	+.237	67	.000	237
18	332	+.142	68	.000	332
19	332	+.047	69	.000	427
20	332	047	70	.000	555
21	332	142	71	+.083	+.475
22	332	237	72	+.083	+.380
23	332	332	73	+.083	+.285
24	332	427	74	+.083	+.190
25	249	+.496	75	+.083	+.095
26	249	+.380	76	+.083	.000
27	249	+.285	77	+.083	095

	tact Hole Locat	
Contact	Loca	
Number	X Axis	Y Axis
78	+.083	190
79	+.083	285
80	+.083	380
81	+.083	475
82	+.160	+.531
83	+.166	+.427
84	+.166	+.332
85	+.166	+.237
86	+.166	+.142
87	+.166	+.047
88	+.166	047
89	+.166	142
90	+.166	237
91	+.166	332
92	+.166	427
93	+.166	522
94	+.249	+.496
95	+.249	+.380
96	+.249	+.285
97	+.249	+.190
98	+.249	+.095
99	+.249	.000
100	+.249	095
101	+.249	190
102	+.249	285
103	+.249	380
104	+.249	475
105	+.332	+.444
106	+.332	+.332
107	+.332	+.237
107		+.237
	+.332	
109	+.332	+.047
110	+.332	047
111	+.332	142
112	+.332	237
113	+.332	332
114	+.332	427
115	+.424	+.357
116	+.415	+.190
117	+.415	+.095
118	+.415	.000
119	+.415	095
120	+.415	190
121	+.424	357
122	+.479	+.279
123	+.520	+.190
124	+.546	+.095
125	+.555	.000
126	+.546	095
127	+.520	190
128	+.479	279
120	T.713	213

Insert Arrangement #24-61 / 25-61

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
Insert Designation:	24-61	25-61	25-61	24-61	NA

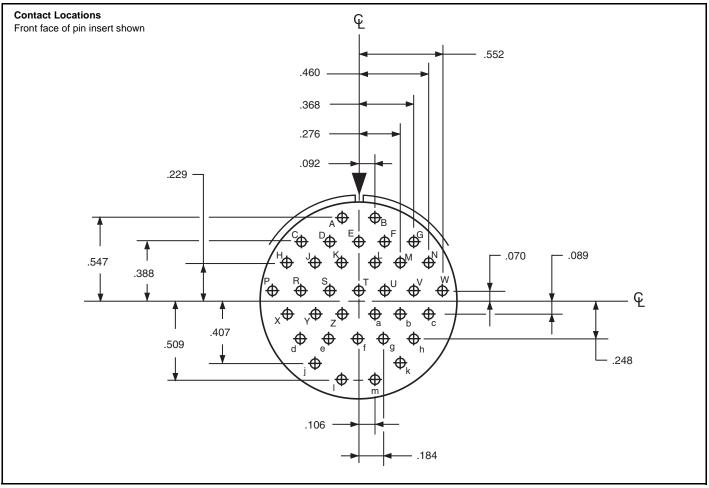
Number of Contacts	Contact Size	Service Rating
61	20	I

Contact Locations	Contact Hole Locations		Contact Hole Locations		tions	
Front face of pin insert shown	Contact	Loca	ation	Contact	Loca	ation
	Number	X Axis	Y Axis	Number	X Axis	Y Axis
	Α	+.196	+.500	h	+.341	213
	В	+.314	+.435	i	+.251	314
+Y	С	+.413	+.343	j	+.133	379
	D	+.485	+.230	k	.000	402
₩	E	+.527	+.101	m	133	379
	F	+.536	030	n	251	314
$A \rightarrow A \rightarrow B$	G	+.511	164	р	341	213
ϕ_{a} ϕ_{b} ϕ_{b}	Н	+.454	287	q	392	088
	J	+.368	391	r	399	+.046
/ ⊕",	K	+.259	470	s	362	+.175
	L	+.134	519	t	285	+.283
	М	.000	537	u	173	+.363
	N	134	519	v	.000	+.338
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \end{array} \\$	Р	259	470	w	+.147	+.223
THE PART OF THE PA	R	368	391	х	+.237	+.122
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array}$	S	454	287	у	+.267	010
P N M K W W L W W	Т	511	164	z	+.228	139
	U	536	030	AA	+.131	233
	V	527	+.101	BB	.000	267
 _Y	w	485	+.230	CC	131	233
•	Х	413	+.343	DD	228	139
	Y	314	+.435	EE	267	010
	Z	196	+.500	FF	237	+.122
	а	068	+.454	GG	147	+.223
	b	+.068	+.454	НН	.000	+.200
	С	+.173	+.363	JJ	+.105	+.094
	d	+.285	+.283	KK	+.135	041
	е	+.362	+.175	LL	.000	132
	f	+.399	+.046	ММ	135	041
	g	+.392	088	NN	105	+.094
				PP	.000	.000

Insert Arrangement #28-15

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	MIL-C-26482 Series 1 & 2	MIL-5015
	001100 11	0011001	00.100 1	001100 1 0 2	2 00.0
Insert Designation:	NA	NA	NA	NA	28-15

Number of Contacts	Contact Size	Service Rating
35	16	Α



Cylindrical Connectors with PCB contacts alternate positioning available for MIL-DTL-38999 connectors

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

In MIL-DTL-38999 Series I, II and III connectors the rotation is based on <u>rotating the master key/keyway</u> in the connector shell. A plug with a given rotation letter will mate with a receptacle with the same rotation letter. Only the master key/keyway rotates in the shell, and the insert always remains in the same position relative to the minor keys. Refer to diagrams below for each connector series.

LJT (MIL-DTL-38999 Series I) KEY/KEYWAY ROTATION

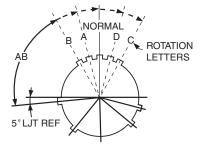
AB ANGLE OF ROTATION (Degrees)						
Shell Size	Normal°	Α°	В°	C°	D°	
9	95	77	-	-	113	
11	95	81	67	123	109	
13	95	75	63	127	115	
15	95	74	61	129	116	
17	95	77	65	125	113	
19	95	77	65	125	113	
21	95	77	65	125	113	
23	95	80	69	121	110	
25	95	80	69	121	110	

JT (MIL-DTL-38999 Series II) KEY/KEYWAY ROTATION

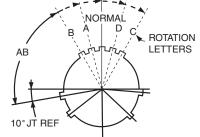
	AB ANGLE OF ROTATION (Degrees)						
Shell Size	Normal°	Α°	В°	C°	D°		
8	100	82	-	-	118		
10	100	86	72	128	114		
12	100	80	68	132	120		
14	100	79	66	134	121		
16	100	82	70	130	118		
18	100	82	70	130	118		
20	100	82	70	130	118		
22	100	85	74	126	115		
24	100	85	74	126	115		

Tri-Start (MIL-DTL-38999 Series III) KEY/KEYWAY ROTATION

Shell Size	Key & Keyway Arrangement Identification Letter	AR° BSC	BR° BSC	CR° BSC	DR° BSC
	N	105	140	215	265
	A	102	132	248	320
9	В	80	118	230	312
9	С	35	140	205	275
	D	64	155	234	304
	Е	91	131	197	240
	N	95	141	208	236
	A	113	156	182	292
11, 13,	В	90	145	195	252
and 15	С	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
	N	80	142	196	293
	A	135	170	200	310
17 and	В	49	169	200	244
19	С	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
	N	80	142	196	293
	А	135	170	200	310
21, 23,	В	49	169	200	244
and 25	С	66	140	200	257
	D	62	145	180	280
J	1	70	150	107	^7^

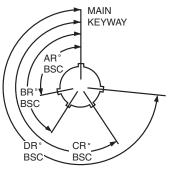


RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY (front face of LJT connector receptacle shown)



Ex

RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY (front face of JT connector receptacle shown)



RELATIVE POSSIBLE POSITION
OF ROTATED MASTER KEYWAY
(front face of Tri-Start connector receptacle shown)

LJT & JT CONNECTORS ALTERNATE ROTATION CROSS REFERENCE LETTERS

Pins in Alternate Rotations	Sockets in Alternate Rotations
PA = E	SA = F
PB = R	SB = T
PC = W	SC = X
PD = Y	SD = Z

Explanation: Use P at end of part number for pin contacts in Normal position. Use S at end of part number for socket contacts in Normal position. Use cross reference letters given in chart above for alternate rotations.

TRI-START CONNECTORS ALTERNATE ROTATION CROSS REFERENCE LETTERS

Alternate Rotations	Alternate Rotations
PA = G	SA = H
PB = I	SB = J
PC = K	SC = L
PD = M	SD = N
PE = R	SE = T

Use P at end of part number for pin contacts in Normal position.
Use S at end of part number for socket contacts in Normal position.
Use cross reference letters given in chart above for alternate rotations.

25

Cylindrical Connectors with PCB contacts alternate positioning available for MIL-C-26482 and MIL-5015 connectors

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

In MIL-C-26482 and MIL-5015 connectors the rotation is based on rotation of the insert within the connector.

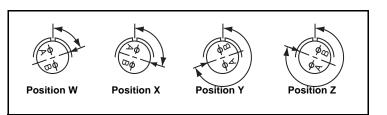
A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. Refer to diagram below for both MIL-C-26482 and MIL-C-5015 connectors

MIL-C-26482 INSERT ROTATION

	Insert Rotation						
Shell	Insert		Deg				
Size	Arrangement	W	Х	Υ	Z		
8	8-3	60	210	-	-		
8	8-98	-	_	-	_		
10	10-5	45	151	180	270		
14	14-18	15	90	180	270		
14	14-19	30	165	315	_		
16	16-26	60	_	275	338		
18	18-32	85	138	222	265		
20	20-41	45	126	225	_		
22	22-36	72	144	216	288		
24	24-31	90	225	255	_		
24	24-61	90	180	270	324		

MIL-5015 INSERT ROTATION

Insert Rotation												
Shell	Insert	Degrees										
Size	Arrangement	W	Х	Υ	Z							
10	10SL-3	-	-	_	-							
14	14S-6	_	-	_	-							
16	16S-1	80	-	_	280							
18	18-1	70	145	215	290							
20	20-11	_	-	ı	-							
22	22-14	80	110	250	280							
24	24-28	80	110	250	280							
28	28-15	80	110	250	280							



RELATIVE POSSIBLE POSITION
OF ROTATED INSERT
(front face of connector receptacle shown)
(MIL-C-26482 and MIL-C-5015)

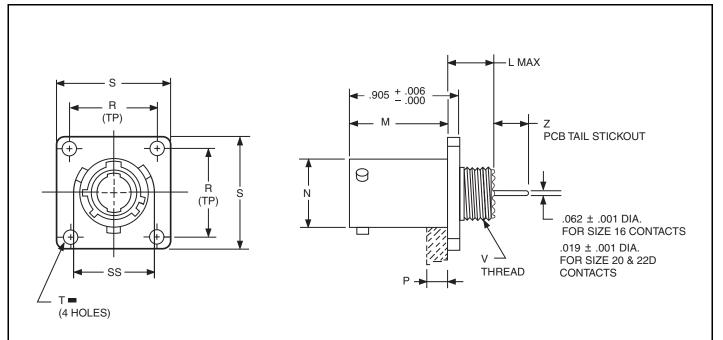
MIL-26482 AND MIL-5015 CONNECTORS ALTERNATE ROTATION CROSS REFERENCE LETTERS

Pins in Alternate Rotations	Sockets in Alternate Rotations
PW = G	SW = H
PX = I	SX = J
PY = K	SY = L
P7 – M	97 – N

Explanation:
Use P at end of part number for pin contacts in Normal position.
Use S at end of part number for socket contacts in Normal position.
Use cross reference letters given in chart above for inserts with alternate rotations.

LJTPQ00R wall mounting receptacle

(back panel mounting)



HOW TO ORDER

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.
- Example part number: 88-569701-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.
- Z dimension is determined by contact type in the insert arrangement.

Most common options are shown; other options are available.

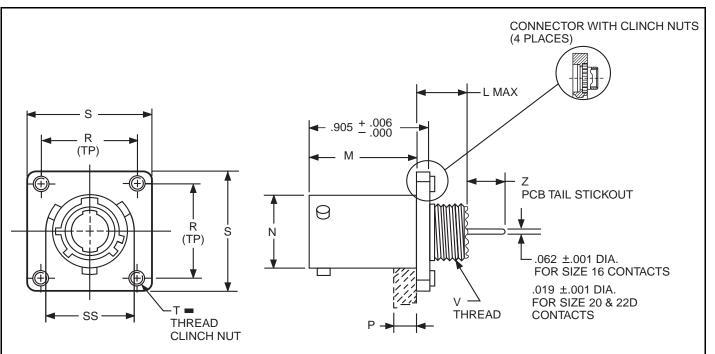
■ (1) .005 DIA (M)

											Z	<u> </u>
Shell Size	Part Number	L Max.	M +.000 005	N Dia.	P Max. Panel Thickness	R (TP)	\$ +.011 010	T Dia. ±.005	V Thread Class 2A (Plated)	SS Dia. +.000 016	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569701-XXX	.453	.820	.572	.234	.719	.938	.128	.4375-28 UNEF	.662	.281 – .235	.249 – .188
11	702-XXX	.453	.820	.700	.234	.812	1.031	.128	.5625-24 UNEF	.810	.281 – .235	.249 – .188
13	703-XXX	.453	.820	.850	.234	.906	1.125	.128	.6875-24 UNEF	.960	.281 – .235	.249 – .188
15	704-XXX	.453	.820	.975	.234	.969	1.219	.128	.8125-20 UNEF	1.085	.281 – .235	.249 – .188
17	705-XXX	.453	.820	1.100	.234	1.062	1.312	.128	.9375-20 UNEF	1.210	.281 – .235	.249 – .188
19	706-XXX	.453	.820	1.207	.234	1.156	1.438	.128	1.0625-18 UNEF	1.317	.281 – .235	.249 – .188
21	707-XXX	.484	.790	1.332	.204	1.250	1.562	.128	1.1875-18 UNEF	1.442	.281 – .235	.249 – .188
23	708-XXX	.484	.790	1.457	.204	1.375	1.688	.147	1.3125-18 UNEF	1.567	.281 – .235	.249 – .188
25	709-XXX	.484	.790	1.582	.193	1.500	1.812	.147	1.4375-18 UNEF	1.692	.281 – .235	.249 – .188

All dimensions for reference only.

LJTPQ00R wall mounting receptacle

(back panel mounting) (with clinch nuts)



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter

Example part number: 88-628701-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

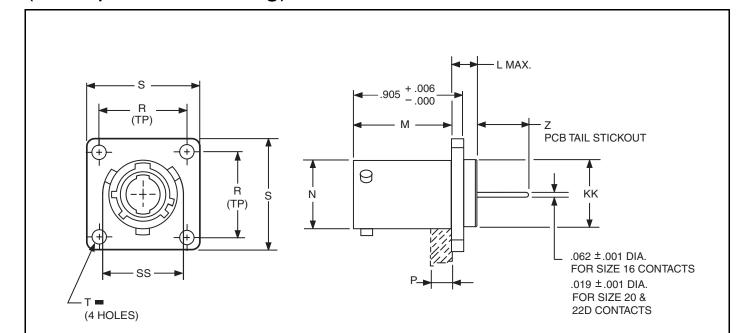
■ (+) .005 DIA (M)

											7	Z
Shell Size	Part Number with Clinch Nuts*	L Max.	M +.000 005	N Dia.	P Max. Panel Thickness	R (TP)	S +.011 010	T Thread	V Thread Class 2A (Plated)	SS Dia. +.000 016	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-628701-XXX	.453	.820	.572	.234	.719	.938	.112-40UNJC-3B	.4375-28 UNEF	.662	.281 – .235	.249 – .188
11	702-XXX	.453	.820	.700	.234	.812	1.031	.112-40UNJC-3B	.5625-24 UNEF	.810	.281 – .235	.249 – .188
13	703-XXX	.453	.820	.850	.234	.906	1.125	.112-40UNJC-3B	.6875-24 UNEF	.960	.281 – .235	.249 – .188
15	704-XXX	.453	.820	.975	.234	.969	1.219	.112-40UNJC-3B	.8125-20 UNEF	1.085	.281 – .235	.249 – .188
17	705-XXX	.453	.820	1.100	.234	1.062	1.312	.112-40UNJC-3B	.9375-20 UNEF	1.210	.281 – .235	.249 – .188
19	706-XXX	.453	.820	1.207	.234	1.156	1.438	.112-40UNJC-3B	1.0625-18 UNEF	1.317	.281 – .235	.249 – .188
21	707-XXX	.484	.790	1.332	.204	1.250	1.562	.112-40UNJC-3B	1.1875-18 UNEF	1.442	.281 – .235	.249 – .188
23	708-XXX	.484	.790	1.457	.204	1.375	1.688	.138-32UNJC-3B	1.3125-18 UNEF	1.567	.281 – .235	.249 – .188
25	709-XXX	.484	.790	1.582	.193	1.500	1.812	.138-32UNJC-3B	1.4375-18 UNEF	1.692	.281 – .235	.249 – .188

All dimensions for reference or

^{*} Consult Amphenol for more information on ordering connectors with clinch nuts. There is also a 3mm clinch nut available (part number 88/91-628401/409)

LJTP02R box mounting receptacle (back panel mounting)



HOW TO ORDER

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-569711-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

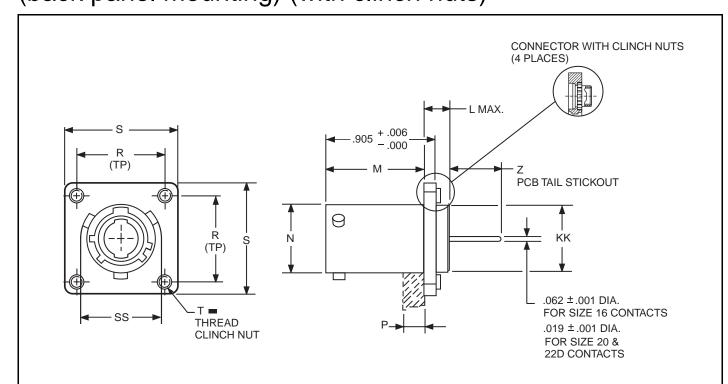
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

■ ① .005 DIA M

											7	<u> </u>
Shell Size	Part Number	L Max.	M +.000 005	N +.001 005	P Max. Panel Thickness	R (TP)	S +.011 010	T Dia. ±.005	KK Dia. +.006 005	SS Dia. +.000 016	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569711-XXX	.203	.820	.572	.234	.719	.938	.128	.433	.662	.454 – .401	.468 – .406
11	712-XXX	.203	.820	.700	.234	.812	1.031	.128	.557	.810	.454 – .401	.468 – .406
13	713-XXX	.203	.820	.850	.234	.906	1.125	.128	.676	.960	.454 – .401	.468 – .406
15	714-XXX	.203	.820	.975	.234	.969	1.219	.128	.801	1.085	.454 – .401	.468 – .406
17	715-XXX	.203	.820	1.100	.234	1.062	1.312	.128	.926	1.210	.454 – .401	.468 – .406
19	716-XXX	.203	.820	1.207	.234	1.156	1.438	.128	1.032	1.317	.454 – .401	.468 – .406
21	717-XXX	.234	.790	1.332	.204	1.250	1.562	.128	1.157	1.442	.454 – .401	.468 – .406
23	718-XXX	.234	.790	1.457	.204	1.375	1.688	.147	1.282	1.567	.454 – .401	.468 – .406
25	719-XXX	.234	.790	1.582	.193	1.500	1.812	.147	1.407	1.692	.454 – .401	.468 – .406

All dimensions for reference only.

LJTP02R box mounting receptacle (back panel mounting) (with clinch nuts)



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rota-

Example part number: 88-628701-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

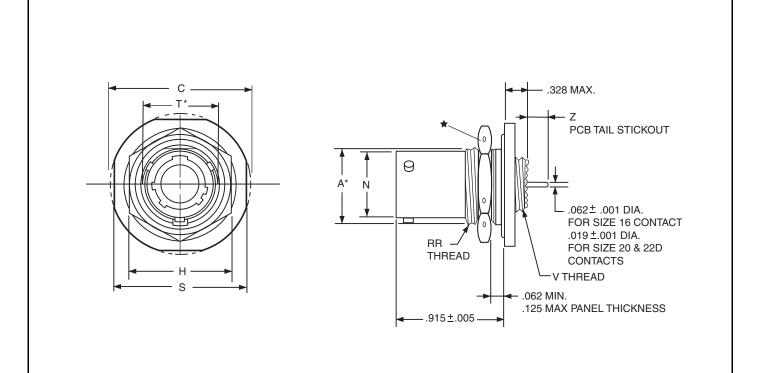
■ (+) .005 DIA (M)

											2	7
Shell Size	Part Number with Clinch Nuts	L Max.	M +.000 005	N +.001 005	P Max. Panel Thickness	R (TP)	\$ +.011 010	T Thread	KK Dia. +.006 005	SS Dia. +.000 016	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-628711-XXX	.203	.820	.572	.234	.719	1.031	.112-40UNJC-3B	.433	.662	.454 – .401	.468 – .406
11	712-XXX	.203	.820	.700	.234	.812	1.125	.112-40UNJC-3B	.557	.810	.454 – .401	.468 – .406
13	713-XXX	.203	.820	.850	.234	.906	1.172	.112-40UNJC-3B	.676	.960	.454 – .401	.468 – .406
15	714-XXX	.203	.820	.975	.234	.969	1.281	.112-40UNJC-3B	.801	1.085	.454 – .401	.468 – .406
17	715-XXX	.203	.820	1.100	.234	1.062	1.375	.112-40UNJC-3B	.926	1.210	.454 – .401	.468 – .406
19	716-XXX	.203	.820	1.207	.234	1.156	1.469	.112-40UNJC-3B	1.032	1.317	.454 – .401	.468 – .406
21	717-XXX	.234	.790	1.332	.204	1.250	1.625	.112-40UNJC-3B	1.157	1.442	.454 – .401	.468 – .406
23	718-XXX	.234	.790	1.457	.204	1.375	1.750	.138-32UNJC-3B	1.282	1.567	.454 – .401	.468 – .406
25	719-XXX	.234	.790	1.582	.193	1.500	1.875	.138-32UNJC-3B	1.407	1.692	.454 – .401	.468 – .406

All dimensions for reference onl

^{*} Consult Amphenol for more information on ordering connectors with clinch nuts. There is also a 3mm clinch nut available (part number 88/91-628410/419)

LJT07R jam nut receptacle



HOW TO ORDER

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
- 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.
- Example part number: 88-569721-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

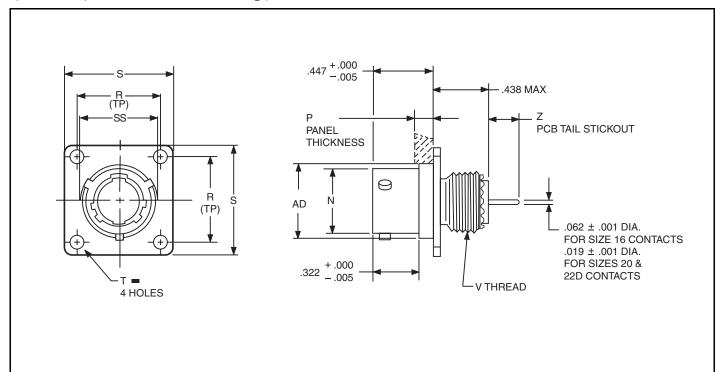
- ★ .059 dia. min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional.
- * "D" shaped mounting hole dimensions

											7	Z
Shell Size	Part Number	A* +.000 010	C Max.	H Hex +.017 016	L Max.	N +.001 005	S ±.016	T* +.010 000	V Thread Class 2A (Plated)	RR Thread Class 2A (Plated)	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569721-XXX	.669	1.199	.875	.625	.572	1.062	.697	.4375-28 UNEF	.6875-24 UNEF	.229 – .175	.243 – .182
11	722-XXX	.769	1.386	1.000	.625	.700	1.250	.822	.5625-24 UNEF	.8125-20 UNEF	.229 – .175	.243182
13	723-XXX	.955	1.511	1.188	.625	.850	1.375	1.007	.6875-24 UNEF	1.0000-20 UNEF	.229 – .175	.243 – .182
15	724-XXX	1.084	1.636	1.312	.625	.975	1.500	1.134	.8125-20 UNEF	1.1250-18 UNEF	.229 – .175	.243 – .182
17	725-XXX	1.208	1.761	1.438	.625	1.100	1.625	1.259	.9375-20 UNEF	1.2500-18 UNEF	.229 – .175	.243 – .182
19	726-XXX	1.333	1.949	1.562	.656	1.207	1.812	1.384	1.0625-18 UNEF	1.3750-18 UNEF	.207 – .158	.221 – .165
21	727-XXX	1.459	2.073	1.688	.750	1.332	1.938	1.507	1.1875-18 UNEF	1.5000-18 UNEF	.207 – .158	.221 – .165
23	728-XXX	1.580	2.199	1.812	.750	1.457	2.062	1.634	1.3125-18 UNEF	1.6250-18 UNEF	.207 – .158	.221 – .165
25	729-XXX	1.709	2.323	2.000	.750	1.582	2.188	1.759	1.4375-18 UNEF	1.7500-18 UNS	.207 – .158	.221 – .165

All dimensions for reference only.

JTPQ00R wall mounting receptacle

(back panel mounting)



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-569731-35P designates shell size 8 with a 8-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

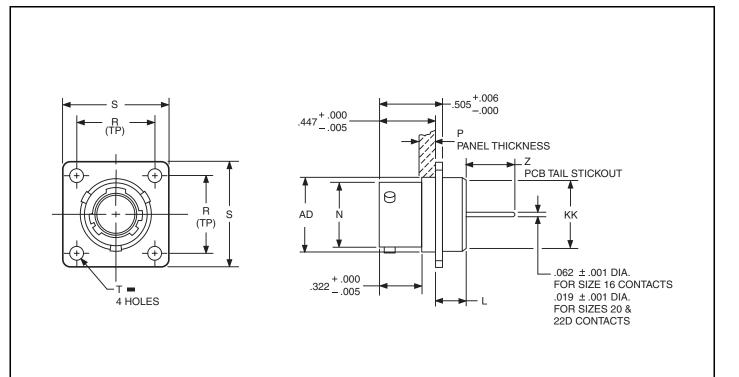
■ ① .005 DIA M

Shell Size										· -	<u>Z</u>
3126	Part Number	N +.001 005	P Max. Panel Thickness	R (TP)	S ±.016	T Dia. ±.005	V Thread Class 2A (Plated)	AD Dia. ±.005	SS Dia. +.000 016	Size 16 & 20 Contacts	Size 22D Contacts
8 8	88/91-569731-XXX	.473	.142	.594	.812	.120	.4375-28 UNEF	.516	.563	.257 – .200	.268 – .178
10	732-XXX	.590	.142	.719	.938	.120	.5625-24 UNEF	.633	.680	.257 – .200	.268 – .178
12	733-XXX	.750	.142	.812	1.031	.120	.6875-24 UNEF	.802	.859	.257 – .200	.268 – .178
14	734-XXX	.875	.142	.906	1.125	.120	.8125-20 UNEF	.927	.984	.257 – .200	.268 – .178
16	735-XXX	1.000	.142	.969	1.219	.120	.9375-20 UNEF	1.052	1.108	.257 – .200	.268 – .178
18	736-XXX	1.125	.142	1.062	1.312	.120	1.0625-18 UNEF	1.177	1.233	.257 – .200	.268 – .178
20	737-XXX	1.250	.142	1.156	1.438	.120	1.1875-18 UNEF	1.302	1.358	.257 – .200	.268 – .178
22	738-XXX	1.375	.142	1.250	1.562	.120	1.3125-18 UNEF	1.427	1.483	.257 – .200	.268 – .178
24	739-XXX	1.500	.142	1.375	1.688	.147	1.4375-18 UNEF	1.552	1.610	.257 – .200	.268 – .178

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JTP02R box mounting receptacle

(back panel mounting)



HOW TO ORDER

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

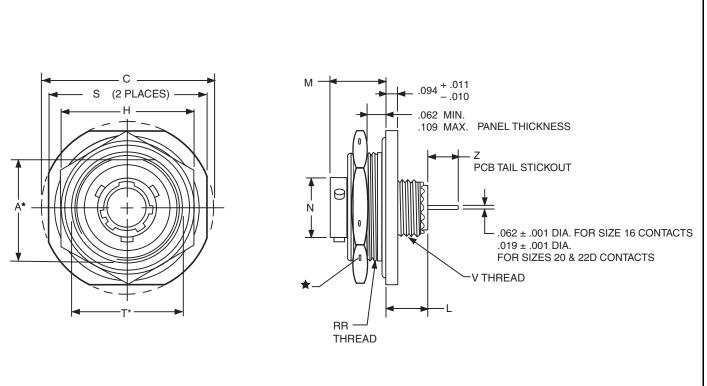
Example part number: 88-569741-35P designates shell size 8 with a 8-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

■ ① .005 DIA M

										7	Z
Shell Size	Part Number	L Max.	N +.001 005	P Max. Panel Thickness	R (TP)	S ±.016	T Dia. ±.005	AD Dia. ±.005	KK Dia. Max.	Size 16 & 20 Contacts	Size 22D Contacts
8	88/91-569741-XXX	.225	.473	.147	.594	.812	.120	.516	.531	.455 – .403	.466 – .409
10	742-XXX	.225	.590	.152	.719	.938	.120	.633	.656	.455 – .403	.466 – .409
12	743-XXX	.225	.750	.152	.812	1.031	.120	.802	.828	.455 – .403	.466 – .409
14	744-XXX	.225	.875	.152	.906	1.125	.120	.927	.953	.455 – .403	.466 – .409
16	745-XXX	.225	1.000	.152	.969	1.219	.120	1.052	1.078	.455 – .403	.466 – .409
18	746-XXX	.225	1.125	.152	1.062	1.312	.120	1.177	1.203	.455 – .403	.466 – .409
20	747-XXX	.225	1.250	.179	1.156	1.438	.120	1.302	1.328	.455 – .403	.466 – .409
22	748-XXX	.225	1.375	.179	1.250	1.562	.120	1.427	1.453	.455 – .403	.466 – .409
24	749-XXX	.225	1.500	.169	1.375	1.688	.147	1.552	1.578	.455 – .403	.466 – .409

JT07R jam nut receptacle



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-569751-35P designates shell size 8 with a 8-35 insert and pin contacts in normal position.

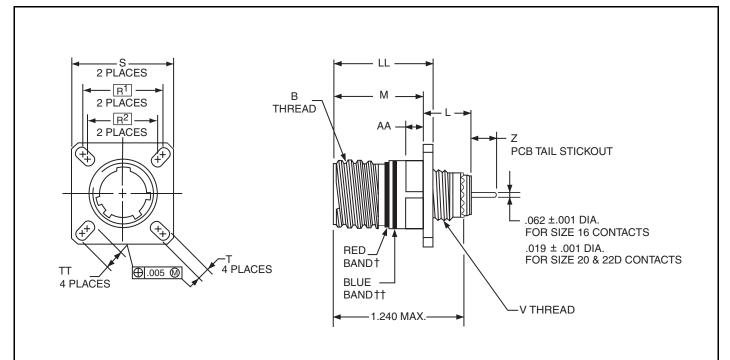
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

.059 dia. min. 3 lockwire holes.
 Formed lockwire hole design (6 holes) is optional.
 "D" shaped mounting hole dimensions

												2	Z
Shell Size	Part Number	A* +.000 010	C Max.	H Hex +.017 016	L Max.	M ±.005	N +.001 005	S ±.016	T* +.010 000	V Thread Class 2A (Plated)	RR Thread Class 2A (Plated)	Size 16 & 20 Contacts	Size 22D Contacts
8	88/91-569751-XXX	.830	1.390	1.062	.453	.438	.473	1.250	.884	.4375-28 UNEF	.8750-20 UNEF	.272 – .200	.283 – .178
10	752-XXX	.955	1.515	1.188	.453	.438	.590	1.375	1.007	.5625-24 UNEF	1.0000-20 UNEF	.272 – .200	.283 – .178
12	753-XXX	1.084	1.640	1.312	.453	.438	.750	1.500	1.134	.6875-24 UNEF	1.1250-18 UNEF	.272 – .200	.283 – .178
14	754-XXX	1.208	1.765	1.438	.453	.438	.875	1.625	1.259	.8125-20 UNEF	1.2500-18 UNEF	.272 – .200	.283 – .178
16	755-XXX	1.333	1.953	1.562	.453	.438	1.000	1.781	1.384	.9375-20 UNEF	1.3750-18 UNEF	.272 – .200	.283 – .178
18	756-XXX	1.459	2.031	1.688	.453	.438	1.125	1.890	1.507	1.0625-18 UNEF	1.5000-18 UNEF	.272 – .200	.283 – .178
20	757-XXX	1.576	2.156	1.812	.422	.464	1.250	2.016	1.634	1.1875-18 UNEF	1.6250-18 UNEF	.272 – .200	.283 – .178
22	758-XXX	1.701	2.280	2.000	.422	.464	1.375	2.140	1.759	1.3125-18 UNEF	1.7500-18 UNS	.272 – .200	.283 – .178
24	759-XXX	1.826	2.405	2.125	.422	.464	1.500	2.265	1.884	1.4375-18 UNEF	1.8750-16 UN	.272 – .200	.283 – .178

TVP00R wall mounting receptacle

(back panel mounting)



HOW TO ORDER

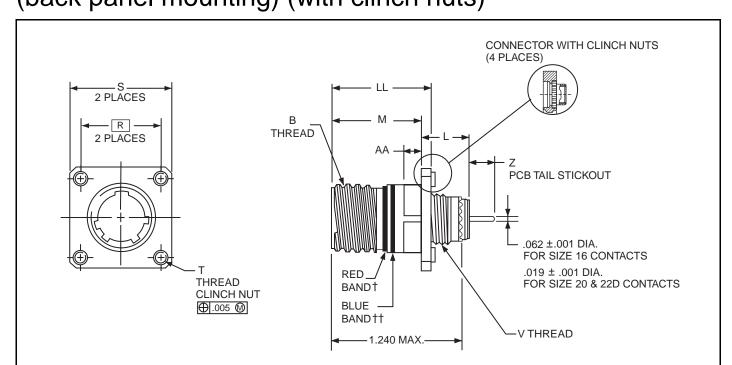
- Order by applicable 88/91 part number in table below.
- 88 prefix designates olive drab cadmium plated connector shell. 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.
- Example part number: 88-569761-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

Composite Series III connectors are available; consult Amphenol, Sidney, NY.

- Designates true position dimensioning
- † Red band indicates fully mated
- †† Blue band indicates rear release contact retention system

		B Thread								AA				Z
Shell Size	Part Number	Class 2A (Plated) 0.1P-0.3L-TS	L Max.	M +.000 005	R ¹	R ²	S Max.	T +.008 006	V Thread Metric	Max. Panel Thickness	LL +.006 000	TT +.008 006	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569761-XXX	.6250	.469	.820	.719	.594	.948	.128	M12X1-6g	.234	.905	.216	.228–.178	.242181
11	762-XXX	.7500	.469	.820	.812	.719	1.043	.128	M15X1-6g	.234	.905	.194	.228–.178	.242181
13	763-XXX	.8750	.469	.820	.906	.812	1.137	.128	M18X1-6g	.234	.905	.194	.228–.178	.242–.181
15	764-XXX	1.0000	.469	.820	.969	.906	1.232	.128	M22X1-6g	.234	.905	.173	.228178	.242181
17	765-XXX	1.1875	.469	.820	1.062	.969	1.323	.128	M25X1-6g	.234	.905	.194	.228–.178	.242181
19	766-XXX	1.2500	.469	.820	1.156	1.062	1.449	.128	M28X1-6g	.234	.905	.194	.228–.178	.242181
21	767-XXX	1.3750	.500	.790	1.250	1.156	1.575	.128	M31X1-6g	.204	.905	.194	.228–.178	.242181
23	768-XXX	1.5000	.500	.790	1.375	1.250	1.701	.154	M34X1-6g	.204	.905	.242	.228–.178	.242181
25	769-XXX	1.6250	.500	.790	1.500	1.375	1.823	.154	M37X1-6g	.204	.905	.242	.228–.178	.242181

TVP00R wall mounting receptacle (back panel mounting) (with clinch nuts)



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use

Example part number: 88-628741-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

Composite Series III connectors are available; consult Amphenol, Sidney, NY.

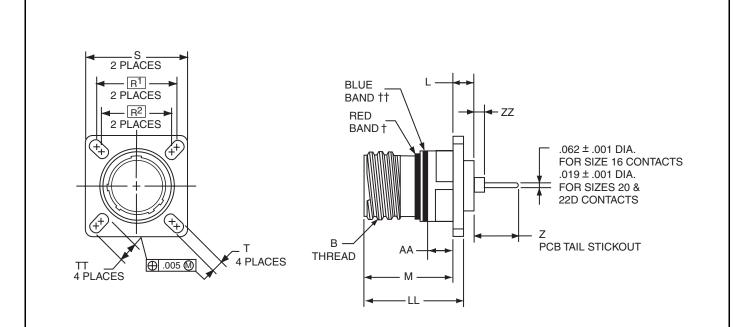
- Designates true position dimensioning† Red band indicates fully mated
- †† Blue band indicates rear release contact retention system

		B Thread							AA			Z
Shell Size	Part Number with Clinch Nuts	Class 2A (Plated) 0.1P-0.3L-TS	L Max.	M +.000 005	R	S Max.	T Thread	V Thread Metric	Max. Panel Thickness	LL +.006 000	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-628741-XXX	.6250	.469	.820	.719	1.094	.112-40UNC-3B	M12X1-6g	.234	.905	.228–.178	.242181
11	742-XXX	.7500	.469	.820	.812	1.187	.112-40UNC-3B	M15X1-6g	.234	.905	.228–.178	.242181
13	743-XXX	.8750	.469	.820	.906	1.281	.112-40UNC-3B	M18X1-6g	.234	.905	.228–.178	.242181
15	744-XXX	1.0000	.469	.820	.969	1.344	.112-40UNC-3B	M22X1-6g	.234	.905	.228–.178	.242181
17	745-XXX	1.1875	.469	.820	1.062	1.437	.112-40UNC-3B	M25X1-6g	.234	.905	.228–.178	.242181
19	746-XXX	1.2500	.469	.820	1.156	1.531	.112-40UNC-3B	M28X1-6g	.234	.905	.228–.178	.242181
21	747-XXX	1.3750	.500	.790	1.250	1.625	.112-40UNC-3B	M31X1-6g	.204	.905	.228–.178	.242181
23	748-XXX	1.5000	.500	.790	1.375	1.750	.138-32UNC-3B	M34X1-6g	.204	.905	.228–.178	.242181
25	749-XXX	1.6250	.500	.790	1.500	1.875	.138-32UNC-3B	M37X1-6g	.204	.905	.228–.178	.242181

All dimensions for reference only.

^{*} Consult Amphenol for more information on ordering connectors with clinch nuts.

TVP02R box mounting receptacle



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-569771-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

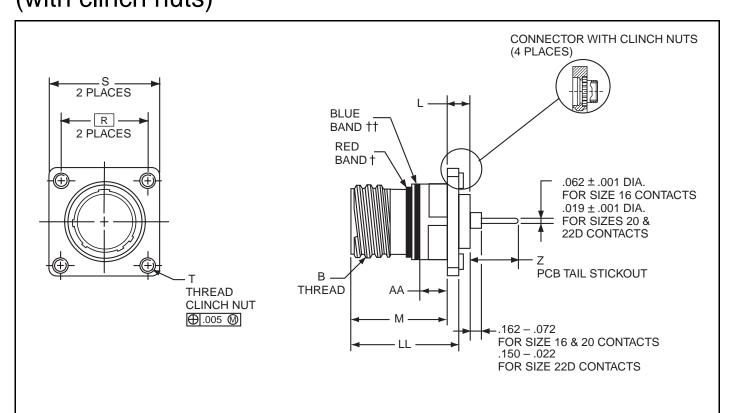
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

Composite Series III connectors are available; consult Amphenol, Sidney, NY.

- Designates true position dimensioningRed band indicates fully mated
- †† Blue band indicates rear release contact retention system

		B Thread							AA			7	Z
Shell Size	Part Number	Class 2A (Plated) 0.1P-0.3L-TS	L Max.	M +.000 005	R ¹	R ²	S Max.	T +.008 006	Max. Panel Thickness	LL +.006 000	TT +.008 006	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569771-XXX	.6250	.205	.820	.719	.594	.948	.128	.234	.905	.216	.460375	.471–.399
11	772-XXX	.7500	.205	.820	.812	.719	1.043	.128	.234	.905	.194	.460375	.471–.399
13	773-XXX	.8750	.205	.820	.906	.812	1.137	.128	.234	.905	.194	.460375	.471–.399
15	774-XXX	1.0000	.205	.820	.969	.906	1.232	.128	.234	.905	.173	.460375	.471–.399
17	775-XXX	1.1875	.205	.820	1.062	.969	1.323	.128	.234	.905	.194	.460375	.471–.399
19	776-XXX	1.2500	.205	.820	1.156	1.062	1.449	.128	.234	.905	.194	.460375	.471–.399
21	777-XXX	1.3750	.235	.790	1.250	1.156	1.575	.128	.204	.905	.194	.460375	.471–.399
23	778-XXX	1.5000	.235	.790	1.375	1.250	1.701	.154	.204	.905	.242	.460375	.471–.399
25	779-XXX	1.6250	.235	.790	1.500	1.375	1.823	.154	.204	.905	.242	.460–.375	.471–.399

TVP02R box mounting receptacle (with clinch nuts)



HOW TO ORDE

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-628751-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

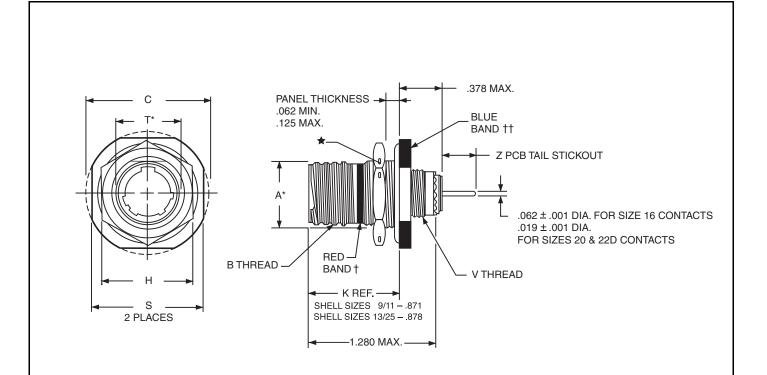
Composite Series III connectors are available; consult Amphenol, Sidney, NY.

- Designates true position dimensioning
 † Red band indicates fully mated
- †† Blue band indicates rear release contact retention system

		B Thread						AA		2	7
Shell Size	Part Number with Clinch Nuts	Class 2A (Plated) 0.1P-0.3L-TS	L Max.	M +.000 005	R	S Max.	T Thread	Max. Panel Thickness	LL +.006 000	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-628751-XXX	.6250	.205	.820	.719	1.031	.112-40UNC-3B	.234	.905	.460375	.471399
11	752-XXX	.7500	.205	.820	.812	1.125	.112-40UNC-3B	.234	.905	.460375	.471399
13	753-XXX	.8750	.205	.820	.906	1.172	.112-40UNC-3B	.234	.905	.460375	.471–.399
15	754-XXX	1.0000	.205	.820	.969	1.281	.112-40UNC-3B	.234	.905	.460375	.471–.399
17	755-XXX	1.1875	.205	.820	1.062	1.375	.112-40UNC-3B	.234	.905	.460375	.471399
19	756-XXX	1.2500	.205	.820	1.156	1.469	.112-40UNC-3B	.234	.905	.460375	.471–.399
21	757-XXX	1.3750	.235	.790	1.250	1.562	.112-40UNC-3B	.204	.905	.460375	.471–.399
23	758-XXX	1.5000	.235	.790	1.375	1.750	.138-32UNC-3B	.204	.905	.460375	.471399
25	759-XXX	1.6250	.235	.790	1.500	1.875	.138-32UNC-3B	.204	.905	.460375	.471–.399

^{*} Consult Amphenol for more information on ordering connectors with clinch nuts.

TV07R jam nut receptacle



HOW TO ORDER

- Order by applicable 88/91 part number in table below.
 88 prefix designates olive drab cadmium plated connector shell.
 91 prefix designates electroless nickel plated connector shell.
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 25 for alternate rotation letter to use.

Example part number: 88-569781-35P designates shell size 9 with a 9-35 insert and pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

Composite Series III connectors are available; consult Amphenol, Sidney, NY.

- † Red band indicates fully mated
- †† Blue band indicates rear release contact retention system
- ★ .059 dia. min. 3 lockwire holes.
- Formed lockwire hole design (6 holes) is optional.
- * "D" shaped mounting hole dimensions

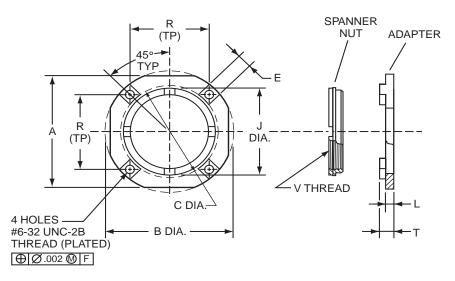
									:	Z
Shell Size	Part Number	A* +.000 000	B Thread Class 2A (Plated) 0.1P-0.3L-TS	C Max.	H Hex +.017 016	S ±.010	T +.010 000	V Thread Metric	Size 16 & 20 Contacts	Size 22D Contacts
9	88/91-569781-XXX	.669	.6250	1.199	.875	1.062	.697	M12X1-6g	.244 – .200	.258 – .206
11	782-XXX	.769	.7500	1.386	1.000	1.250	.822	M15X1-6g	.244 – .200	.258 – .206
13	783-XXX	.955	.8750	1.511	1.188	1.375	1.007	M18X1-6g	.244 – .200	.258 – .206
15	784-XXX	1.084	1.0000	1.636	1.312	1.500	1.134	M22X1-6g	.244 – .200	.258 – .206
17	785-XXX	1.208	1.1875	1.761	1.438	1.625	1.259	M25X1-6g	.244 – .200	.258 – .206
19	786-XXX	1.333	1.2500	1.949	1.562	1.812	1.384	M28X1-6g	.222 – .177	.236 – .180
21	787-XXX	1.459	1.3750	2.073	1.688	1.938	1.507	M31X1-6g	.222 – .177	.236 – .180
23	788-XXX	1.575	1.5000	2.199	1.812	2.062	1.634	M34X1-6g	.222 – .177	.236 – .180
25	789-XXX	1.709	1.6250	2.323	2.000	2.188	1.759	M37X1-6g	.222 – .177	.236 – .180

Stand-off Adapter for use with 38999 PCB connectors

Amphenol's stand-off adapter and spanner nut assembly allows any MIL-DTL-38999 jam nut receptacle to support PCB contacts and may eliminate the need for special stand-off shell design. Consult Amphenol for more information.



Tri-Start MIL-DTL-38999 Jam Nut Connector with Stand-off Adapter



- HOW TO ORDER
- Order by applicable 10- part number in table below. Last digit designates finish - see finish table.

Shell Size	Part Number	A ± .003	B Dia. ± .003	C Dia. +.005 001	E ±.005	J Dia. +.005 000	L ±.003	V Thread Metric Plated	T* ±.002
9	10-658266-01()	1.062	1.188	.750	.200	.625	.150	M12X1-6H	.250
11	10-658266-02()	1.250	1.375	.900	.200	.744	.150	M15X1-6H	.250
13	10-658266-03()	1.375	1.500	.975	.200	.862	.150	M18X1-6H	.250
15	10-658266-04()	1.500	1.625	1.125	.200	1.019	.150	M22X1-6H	.250
17	10-658266-05()	1.625	1.750	1.250	.200	1.137	.150	M25X1-6H	.250
19	10-658266-06()	1.812	1.938	1.375	.200	1.255	.150	M28X1-6H	.250
21	10-658266-07()	1.938	2.062	1.469	.200	1.373	.150	M31X1-6H	.250
23	10-658266-08()	2.062	2.188	1.625	.200	1.492	.150	M34X1-6H	.250
25	10-658266-09()	2.188	2.312	1.750	.200	1.610	.150	M37X1-6H	.250

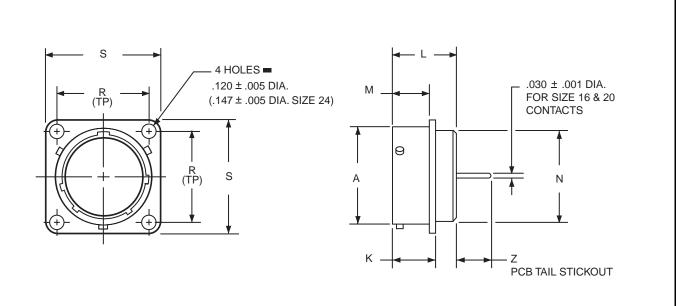
Designation	Bookiplion
9	Olive drab cadmium plate, nickel base plate
G	Electroless nickel plate
*Other finishe	s available; consult

^{**}Other finishes available; consult Amphenol for further information.

All dimensions for reference only.
* For information on additional 'T' dimension lengths, consult Amphenol.

MIL-C-26482 Series 1 Type Connectors with PCB contacts

PT02 box mounting receptacle



HOW TO ORDER

- Order by applicable 71 part number in table below.
 71 prefix designates olive drab cadmium plated connector shell.
 (For availability of other finishes consult Amphenol, Sidney, NY)
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 26 for alternate rotation letter to use.
 Example part number: 71-570121-98P designates shell size 8 with a 8-98 insert

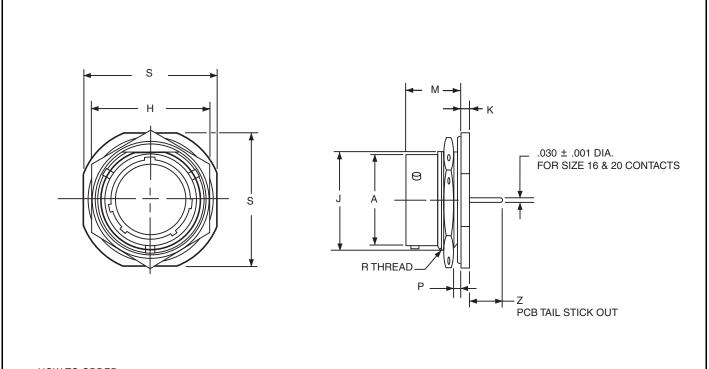
Example part number: 71-570121-98P designates shell size 8 with a 8-98 instant pin contacts in normal position.

- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

■ (MMC) located within .0025 of (TP)

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

MIL-C-26482 Series 1 Type Connectors with PCB contacts PT07 jam nut receptacle



HOW TO ORDER

- Order by applicable 71 part number in table below.
 71 prefix designates olive drab cadmium plated connector shell.
 (For availability of other finishes consult Amphenol, Sidney, NY)
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 26 for alternate rotation letter to use.

Example part number: 71-533721-98P designates shell size 8 with a 8-98 insert and pin contacts in normal position.

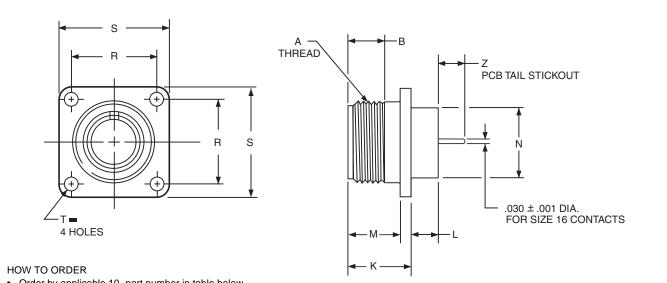
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

All lockwire holes are .044 dia. min.

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

MIL-5015 Type Connectors with PCB contacts

MS3102R box mounting receptacle



- Order by applicable 10- part number in table below. 10- prefix designates olive drab cadmium plated connector shell. (For availability of other finishes consult Amphenol, Sidney, NY)
- Add insert arrangement to end of number. Refer to insert availability chart on page 4 and pin-out illustrations on pages 5-24. Last letter of part number designates rotation; P for pins in normal position, S for sockets in normal position. See page 26 for alternate rotation letter to use. Example part number: 10-602462-3P designates shell size 10SL with a 10SL-3 insert and pin contacts in normal position.
- Z dimension is determined by contact type in the insert arrangement.
- Most common options are shown; other options are available.

Reverse Bayonet GT Series connectors that incorporate 5015 inserts can also be supplied with printed circuit board contacts. Consult Amphenol for more information.

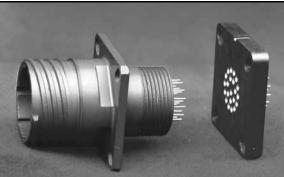
		Α	В	К	L	м	N Dia.			T Dia.	Z ±.045
Shell Size	Part Number	Thread Class 2A	Min. Full Thread	+.020 010	+.000 010	+.010 000	+.010 000	R ±.005	S ±.031	+.004 002	Size 16 Contacts
88	10-602460-XXX	.5000-28 UNEF	.391	.672	.297	.562	.375	.594	.875	.120	.188
10S	461-XXX	.6250-24 NEF	.391	.672	.297	.562	.500	.719	1.000	.120	.188
10SL	462-XXX	.6250-24 NEF	.391	.672	.297	.562	.625	.719	1.000	.120	.188
12S	463-XXX	.7500-20 UNEF	.450	.672	.297	.562	.625	.812	1.094	.120	.188
12	464-XXX	.7500-20 UNEF	.625	.860	.484	.750	.625	.812	1.094	.120	.188
14S	465-XXX	.8750-20 UNEF	.450	.672	.297	.562	.750	.906	1.188	.120	.188
14	466-XXX	.8750-20 UNEF	.625	.860	.484	.750	.750	.906	1.188	.120	.188
16S	467-XXX	1.0000-20 UNEF	.450	.672	.297	.562	.875	.969	1.281	.120	.188
16	468-XXX	1.0000-20 UNEF	.625	.860	.484	.750	.875	.969	1.281	.120	.188
18	469-XXX	1.1250-18 NEF	.625	.891	.453	.750	1.000	1.062	1.375	.120	.188
20	470-XXX	1.2500-18 NEF	.625	.891	.453	.750	1.125	1.156	1.500	.120	.188
22	471-XXX	1.3750-18 NEF	.625	.891	.453	.750	1.250	1.250	1.625	.120	.188
24	472-XXX	1.5000-18 NEF	.625	.953	.453	.812	1.375	1.375	1.750	.147	.188
28	473-XXX	1.7500-18 NS	.625	.953	.453	.812	1.625	1.562	2.000	.147	.188
32	474-XXX	2.0000-18 NS	.625	1.031	.438	.875	1.875	1.750	2.250	.173	.188
36	475-XXX	2.2500-16 UN	.625	1.031	.438	.875	2.062	1.938	2.500	.173	.188
40	476-XXX	2.5000-16 UN	.625	1.031	.438	.875	2.312	2.188	2.750	.173	.188

Universal Header Assemblies for flex print or PCB connectors

Mounts to all MIL-DTL-38999 and MIL-C-26482 Connectors

The use of connectors with printed circuit termination is rapidly gaining popularity due to the use of high volume, vapor phase or wave solder manufacturing processes. Termination of this style of connector to flex print or a printed circuit board represents a major cost in the manufacturing process for users. When adding flex or printed circuit board assemblies to an expensive filter or filter/transient protection connector, the total cost of a failed solder joint, a bent pin, or an

unanticipated electrical failure becomes prohibitive. The universal header assembly from Amphenol will provide for easy separation of the connector from the board on these occasions.



Headers provide easy separation of the connector from the PC board.

Header Assemblies Provide Cost Savings

Incorporation of the header assembly provides the user with time and cost saving potentials. These header assemblies can be vapor phase or wave soldered to flex or printed circuit boards prior to the receipt of the EMI/EMP connector. Headers can be installed to standard connectors, allowing for electrical testing that would adversely affect the sensitive diodes, MOV's or capacitors in the EMI/EMP connectors. Expensive connector assemblies can be easily removed from and reattached to the header assembly as the manufacturing process dictates.

Mounting Applications

Shell modifications are recommended, but are not necessary. The header assembly can be attached to connectors with standard flange placement or directly to the circuit board. The ideal application would involve either a single flange moved all the way to the rear of the connector or a double flange. Cinch nuts can be installed in either flange to allow easier mounting to the panel or the header assembly. The forward flange would mount the connector to the panel; the rear flange would be used to mount the header assembly. Various types of captivated or loose attaching screws can be utilized for unique applications. Amphenol universal headers are slotted to allow mounting to all series of MIL-DTL-38999 or MIL-C-26482 connectors without special alterations. They are of similar dimension as the flange of the mounting connector and would be approximately .185 inches (4.70 mm) thick.

Incorporates a Shorter Pin/Socket Contact

The heart of the header assembly is a short pin/socket contact. The tall of the contact would accommodate standard throughhole diameter and thickness of the flex or printed circuit board materials. The socket is imbedded in the molded material, making electrical engagement with the printed circuit tail of the connector.

Cylindrical Configuration

- 3 PCB stickout dimensions are available.
- Size 22D contacts use .175 thick headers
- Size 16 contacts use .195 thick headers
- Consult Amphenol for Size 20 contact use with headers.
- Headers for cylindrical connectors accommodate up to 128 pins. Consult Amphenol catalogs for mating connector contact layouts (12-092 and 12-090 for MIL-DTL-38999 and 12-070 for MIL-C-26482).

Mounting to Rectangular ARINC Connectors

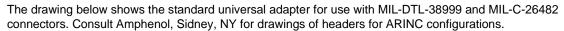
- Headers for ARINC connector arrangements accommodate up to 150 pins.
- Consult Amphenol for ARINC configurations and detailed dimensions.

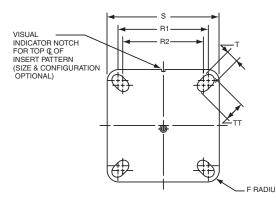
Materials

- Body is molded from Torlon or PPS (Polyphenylene Sulfide)
- Electrical engagement areas of the header contact are plated with .00003 inches minimum of gold over .00005 inches minimum of nickel.



Universal Header Assemblies for flex print or PCB connectors, cont.

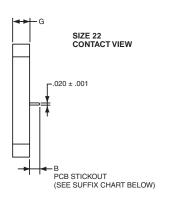




Assembly Part Number	Shell Size	F Radius	G ±.005	S ±.005	T +.008 006	R1 TP†	R2 TP†	+.008 006
21-904008-XX()	8/9	.094		.938	.128	.719	.594	.216
21-904010-XX()	10/11	.094		1.031	.128	.812	.719	.194
21-904012-XX()	12/13	.094		1.125	.128	.906	.812	.194
21-904014-XX()	14/15	.125		1.219	.128	.969	.906	.173
21-904016-XX()	16/17	.125		1.312	.128	1.062	.969	.194
21-904018-XX()	18/19	.125		1.438	.128	1.156	1.062	.194
21-904020-XX()	20/21	.125		1.562	.128	1.250	1.156	.194
21-904022-XX()	22/23	.125		1.688	.154	1.375	1.250	.242
21-904024-XX()	24/25	.125	l \	1.812	.154	1.500	1.375	.242

† TP designates true position dimensioning.

See Suffix Chart __ Assemblies containing Size 22 contact only: .175 Assemblies containing Size 16 or 20 contacts: .195



SIZE 16 AND 20 CONTACT VIEW PCB STICKOUT

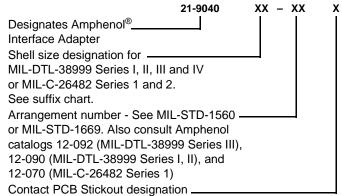
Size 22 accepts .018 to .022 dia. PCB tails. Size 16 accepts .048 to .064 dia. PCB tails. Size 20 accepts .037 to .043 dia. PCB tails.

HOW TO ORDER INFORMATION

For Universal Adapter used with MIL-DTL-38999 and MIL-C-26482 Connectors

Use coded number as follows:

See suffix chart.



For how to order information on adapters to be used with ARINC connectors, consult Amphenol Aerospace, Sidney NY.

ASSEMBLY NUMBER SUFFIX CHART

	Arrangement	Contact PCB Stickout**			
Shell Size Designation*	Number Suffix***	Suffix	B ±.015 Stickout		
08		1	.120		
10		2	.185		
12	Insert	3	.270		
14	Arrangement				
16	Suffix from				
18	MIL-STD-1560 or				
20	MIL-STD-1669				
22					
24					

- Shell size designation for MIL-DTL-38999 Series I, II, III & IV and MIL-C-26482 Series 1 and 2.
- Examples: Shell size 9 use 08. Shell size 25 use 24. ** Size 22 contacts available in all 3 stickout lengths. Size 16 and 20 contacts available only in .185 and .270 lengths.
- *** Insert arrangement 14-97 and 15-97 are not available at this time. Consult Amphenol, Sidney, NY for information.

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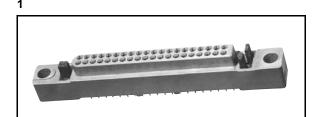
Additional Products for PCB Application

Amphenol® rectangular interconnects

Amphenol is also a leader in rectangular interconnects for printed circuit board application. Within the rectangular families of Amphenol interconnects are Low Mating Force MIL-C-55302 connectors and LRM Surface Mount Connectors.



Variety of Low Mating Force Rectangular Connectors including styles with fiber optics (right) and small styles with only 10 contacts (upper left).



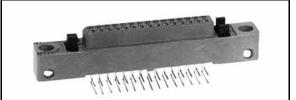
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3



4



LOW MATING FORCE MIL-C-55302 CONNECTORS

- Superior electrical characteristics redundant current paths, low constrictive resistance, stable time/life contact resistance, uniform current densities
- High performance polyester dielectric moldings
- Over 20,000 mating cycles with B³ Bristle Brush Bunch[®] contacts
- Significant reduction in mating force. Only 1.5 ounce max contact engaging and separating forces
- –65° to +125°C temperature rating
- High circuit count interconnections to 400 contacts per connector
- Two, three and four row patterns, 10 to 100 contacts per row, in one contact per row increments
- 0.100 in. center to center contact spacing, square grid
- Serviceability removable crimp contacts, repairable PC stud and solder less wrap contacts
- Board support structure reinforcing reduced
- Variety of contact terminations and platings
- Accessories to suit latching, piloting and polarization variations
- Up to 256 keyed mating polarizations

M55302/166 or 167 Mother Board, M55302/170 Daughter Board

1., 2. Two piece PCB connector featuring PCB stud or solderless wrap contacts in the MB Series and field repairable 90° PCB stud contacts in the DB Series.

M55302/169 Input/Output

3. Rear release, rear removable crimp contacts for discrete wire cabling. I/O connector series mates with standard MB and PC receptacle series to provide external inputs/outputs.

155302/168 PC

4. 90° PCB stud contacts for side mounting on board. Mates with DB and I/O series.

Hybrid Rectangular Connectors with Brush/Power/Coax/Fiber Optic Combinations

Amphenol offers wide versatility of combining contact types in rectangular interconnects.

For more information on Low Mating Force Connectors see catalog 12-035 online at www.amphenol-aerospace.com

Additional Products for PCB Application Amphenol® rectangular interconnects, cont.

LRM SURFACE MOUNT CONNECTORS

The introduction of high speed integrated circuitry such as VHSIC and MMIC has enabled the Design Engineer to accomplish far more on his printed circuit board than ever before. This, coupled with the emergence of a revolutionary change in avionics packaging - modular avionic architectures - has created the need for a high performance, low insertion force PCB connector with significantly increased contact density.

The LRM (Line Replaceable Module) connector series are high performance, high density interconnects, specifically designed to connect printed circuit boards. The Amphenol Brush contact technology is the foundation of the LRM connector series.

LRM Connectors with Staggered Grid

- Advanced design to provide high contact density for high speed integrated circuitry in SEM-E and custom form factors
- 180 contact insert pattern grid in 8 rows: 0.100 inch spacing along the row with 0.050 inch between rows, rows offset 0.050 inch.
- Options include various shell designs to accommodate a wide range of PC board/heat sink combinations
- Solder tail, wire wrap or compliant contact availability
- ESD protection

LRM Connectors with GEN-X Grid

- Higher contact density and improved electrical performance
- All the features of the 180 contact pattern, including ESD protection
- Available in SEM-E and custom form factors
- 236 contact pattern grid in 8 rows: 0.075 inch spacing along the row with 0.060 inch between rows, rows offset 0.0375 inch

LRM Staggered Grid Airflow-thru Connectors

 Available for wider boards up to 0.425 inch. These accommodate standard brush tails in staggered pattern, but with increased spacing in the center, and they also provide more airflow cooling of inserts.

LRM Connectors with Many Contact and Shell Design Options

Flexibility to meet customer demands that include: combinations of brush and fiber optics; options for high speed contacts, RF contacts, or new high amperage RADSOK® contacts; incorporation of flex circuits; custom shells with multiple bays.

For more information on LRM Connectors see new catalog 12-037 at website www.amphenol-aerospace.com.

BACKPLANE ASSEMBLIES

Amphenol is the leading manufacturer of custom backplane assemblies using high density, ruggedized, board-to-board backplane interconnects. These can incorporate brush contacts, pc tail, or press-fit compliant pin contacts, or fiber optic termini. They also can incorporate fork and blade contacts (see next page for fork and blade contact connectors).

- Electrical Backplanes Large panel sizes with high layer counts, and features such as high aspect ratio plating, small diameter plated-through holes, and controlled impedances.
- Optical Backplanes Fiber termination with Multi-Terminal (MT) optical ferrules. Ribbon cable sorting allows programming flexibility; thus rendering the entire system easily upgradeable.
- Hybrid Optical Backplanes Integrated electrical and optical systems in one discreet package for advanced avionics systems.

For more information on Backplane Assemblies from Amphenol Backplane Systems division, see publication SL-392 at websites:

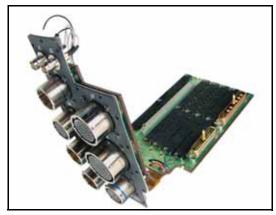
www.amphenol-abs.com or www.amphenol-aerospace.com.



From top to bottom:
Staggered Grid, 2 Bay LRM;
GEN-X Grid, 2 Bay LRM;
LRM inserts with RADSOK contacts;
LRM insert with MT ferrule fiber optics and brush contacts in a Differential Pair insert.



LRM Module Inserts (showing front and back of inserts) with PC Tails in Staggered Grid Pattern



Backplane Assembly with LRM Connectors with Brush Contacts on one side and Cylindrical Connectors with Press-fit Compliant Contacts on the other.

Amphenol® Rectangular Interconnects additional products for PCB application

UHD MODULE/BACKPLANE CONNECTORS WITH FORK & BLADE CONTACTS

Amphenol's wide range of board level interconnects also includes high density UHD Series module and backplane connectors. These use the staggered grid pattern but do not use brush contacts. The staggered grid pattern is 80 contacts per inch, .025 pitch in 8 rows. They are SEM-E format and are qualified to: EIA 15-763, DESC 89065, IEEE 1101.1 to 1101.9

The UHD module connectors have surface mount blade contacts and the mating UHD backplane connectors have solderless press-fit tuning fork contacts. There are a wide range of high contact density patterns and the length and style can be tailored to meet customer requirements. They are rigid pin terminated to the board or flex terminated to the board. Coax, fiber optics and power contacts can also be integrated into the connector configuration. Other options include EMI shielding and UHD interconnects can be provided in a stacking configuration.

NAFI SERIES WITH FORK & BLADE CONTACTS

Amphenol NAFI daughtercard and backplane connectors are another board level interconnect that uses the fork and blade contact termination. They provide a wide range of medium contact density patterns and meet MIL-C-28754 standards. Daughtercard termination is through-hole, using nickel/gold solder plated contacts. The mating interface is a blade contact which can be either parallel or perpendicular to the daughtercard. They are available with 2, 3, 4 and 5 rows of contacts, .100 x .100 pitch. They can be rigid pin terminated to the board or flex circuitry can be used to attach to the board.

Both UHD and NAFI interconnects are used in military and commercial aviation, in space applications, shipboard and in military vehicles. For more information see catalog 12-036 at www.amphenol-abs.com or www.amphenol-aerospace.com.

PRINTED CIRCUIT BOARD TERMINAL BLOCKS

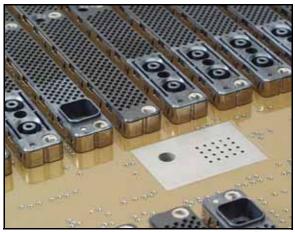
Amphenol Pcd division supplies wire-to-board discrete-wire connections in a variety of styles.

- Pluggable terminal blocks and headers in 3.5mm/.150" pitches in straight, angled, with locking ears, 2-tier, 3 tier, and low profile styles.
- Fixed terminal blocks in 5.0mm, .200", .250", .375" pitches in standard profiles, multi-tier, spring-clamp, high current and high voltage styles.
- Edgecard connectors that are screw terminated style in different size pitches.
- Custom designed terminal blocks with ear mounting options, DIN-rail mounting options, and others.

WIRING INTERFACE MODULES

Amphenol Pcd also supplies an industrial board level interconnect that replaces discrete terminations with a single pluggable unit. Connectors can be D-Sub, ribbon cable, RJ style, Centronic or DIN types. Also diodes, LEDs, resistors, capacitors, relays or fuses can be included in the unit

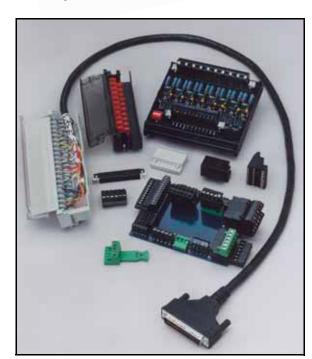
For more information on terminal blocks and wiring interface modules go online to www.amphenol-pcd.com.



UHD Backplane Connectors on Board, Rigid Pin Termination, with Fiber Optics, Coax or Power Contacts



NAFI Daughtercard Connector with Flex Termination



PCB Circuit Board Terminal Blocks and Wiring Interface

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