

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Availability and Identification Chart

38999

III
II
I
SJT
Access
Aquacon

Series	Series	Series	Military	MIL-DTL-27599 JT/LJT Solder	Crimp	Class H	Class Y	TV*	Service Rating	Total Contacts	■	23 HD	22D	22M	22	20	16	12 (Coax)	10 (Power)	8 (Coax)	8†† (Twinax)
8-2■				P					M	2						2					
8-3■				X	NA	P	P		M	3						3					
	9-3■			X					Grounded	1											1
		9-5★■																			
8-6				X	X	P	P		M	6				6							
	9-6			X	X	P	P		M	7				7							
	9-7■			X					M	9		9									
		9-9■							N	9											
	9-22■			X					I	2						2					
8-35					X	P	P		M	6			6								
	9-35	9-35	A35		X	P	P	P	M	4					4						
8-44					X	P	P		M	2						2					
	9-44				X				M	4											
		9-94■			◆				M	2						2					
8-97■				X					M	4				2		2					
8-98				S	X	P	P		I	3						3					
	9-98	9-98	A98	X	X	P	P	P	I	2							2				
	11-2★	11-2★	B2		X	P**			I	4						4					
10-4					3				I	5						5					
	11-4	11-4		X	2				I	6						6					
10-5				X	X	P	P		I	13				13							
	11-5	11-5	B5	X	X			P	I	19		19									
	11-6■			S					M	13											
10-13				X	X	P/S	P/S		N	13											
	11-13			X	X	P/S	P/S		M	13											
		11-19■							N	19											
10-35					X	P/S	P/S		M	13			13								
	11-35	11-35	B35		X	P/S	P/S	P	M	4			4								
		11-54■			X	◆			II	4											
10-98				X	X	P/S	P/S		I	6						6					
	11-98	11-98	B98	X	X	P/S	P/S	P	I	7						7					
10-99					X	P	P		I	3											
	11-99	11-99	B99		X	X		P	II	3							3				
12-3				X	X	◆	P	P	I	4							4				
	13-3■				P				I	8							8				
12-4				X	X	P	P		I	4											
	13-4★	13-4★	C4	X	X	P	P	P	I	8											
12-8				X	X	P	P		I	4											
	13-8	13-8	C8	X	X	P	P	P	I	8											
		13-13■							I, Fiber Optic	4							2**	2			
12-22					X	P/S	P/S		M	22				22							
	13-22			X	X	P/S	P/S		M	8			6				2				
		13-26■			2				N	32		32									
		13-32■							M	22			22								
12-35					X	P/S	P/S		I	4							2	2			
	13-35	13-35	C35		X	P/S	P/S	P	I	10							10				
		13-63■			◆				I	13		10									
12-98				X	X	P/S	P/S		I	4											
	13-98	13-98	C98	X	X	P/S	P/S	P	I	10											
		15-AT■			X				I	13								3			
14-4■					2				I	4											
	15-4■	15-4■			2	◆			I	5											
14-5				X	X	P	P		II	5							5				
	15-5★	15-5★	D5	X	X	P	P	P													

- X Completely tooled.
- + Majority of tooling is completed (contact Amphenol Aerospace for availability).
- ◆ Not tooled for 02-R.
- P Available with Pin contacts only
- S Available with Socket contacts only
- P/S Available with Pin contacts or Socket contacts
- ★ Ground plane proprietary option available. Arrg. 9-5 is exclusively ground plane type.
- Not Mil-Qualified.
- ◇ 21-75 is Mil-Qualified with twinax contacts only.
Note: MS connector 21-75 is supplied with size 8 twinax.
Commercial connector 21-75 is supplied with size 8 coax.

- HD designates High Density 38999 Series III insert patterns which use size 23 contacts only. Not rated over 175°C.
- * Hermetic inserts - solder termination standard. (Contact Amphenol Aerospace for optional PCB or eyelet termination).
- ** Two size 16 contacts dedicated to fiber optics. See the Fiber Optic section for more information.
- *** For use in MIL-STD-1760 applications (see pages 75 and 76).
For RG 180/U and RG 195/U cables only.
- † Size 8 Coax and Twinax are interchangeable.
- †† Not Tooled for RP or 02RE
- (2) Pin inserts only, not tooled for RP or 02RE (Consult Amphenol Aerospace for avail.)
- (5) MS Connector 21-79 has provision for two size 8 coax contacts. Coax contacts are not supplied unless specified by customer.

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Availability and Identification Chart

Series	Series	Series	Military	MIL-DTL-27599		Hermetics					Contact Size										
JT II	LJT I	TV III	III	JT/LJT Solder	Crimp	Class H	Class Y	TV*	Service Rating	Total Contacts	23 HD	22D	22M	22	20	16	12	12 (Coax)	8 (Coax)	8†† (Twinax)	4
14-15				X	X	P	P		I	15					14	1					
	15-15	15-15	D15	X	X	P/S	P/S	P	I												
14-18				X	X	P/S	P/S		I		18					18					
	15-18	15-18	D18	X	X	P/S	P/S	P													
14-19				X	X				I	19					19						
	15-19	15-19	D19		X	P	P	P													
14-35					X	P	P		M	37		37									
	15-35	15-35	D35		X	P/S	P/S	P													
14-37				X	X	P	P		M	37			37								
	15-37			X	X	P	P														
		15-55							N	55	55										
14-68					2	P	P		1	8						8					
	15-68			X	X																
14-97					X	P	P		I	12					8	4					
	15-97	15-97	D97	X	X	P	P	P													
	17-2	17-2	E2		X	♦			M	39		38								1	
		17-EA							M	19		10			3	2	4				
		17-EC							M	41		32			9						
16-6					X	P	P		I	6							6				
	17-6	17-6	E6		X	P	P	P													
16-8				X	X	P	P		II	8						8					
	17-8★	17-8★	E8	X	X	P/S	P/S	P													
16-13					2				I	13						13					
	17-13				2																
	17-22	17-22★			♦				Coax	4								2	2		
	17-25	17-25			2				M	24		22							2		
16-26				X	X	P/S	P/S		I	26					26						
	17-26	17-26	E26	X	X	P/S	P/S	P													
16-35				X	X	P	P		M	55		55									
	17-35	17-35	E35	X	X	P	P	P													
16-42					X				M	42				42							
	17-42				P																
		17-52			X	♦			M	2										2	
16-55				X	X	P/S	P/S		M	55			55								
	17-55			X	X	P/S	P/S														
		17-60			X				I/Coax	10		8							2		
		17-73							N	73	73										
16-99				X	X	P	P		I	23					21	2					
	17-99	17-99	E99	X	X	P	P														
		19-AD			X	♦			Inst.	17					16					1	
		19-FA							M	23		6			8	7	2				
18-11				X	X	P	P		II	11											
	19-11★	19-11★	F11	X	X	P	P	P								11					
	19-18	19-18	F18		2	2			M	18		14								4	
18-28				X	X				I	28					26	2					
	19-28	19-28	F28	X	P	X															
18-30				X	X				I	30					29	1					
	19-30			X	P																
		19-31			X				M	15		12					1		2		
18-32				X	X	P/S	P/S		I	32					32						
	19-32	19-32	F32	X	X	P/S	P/S	P													
18-35					X	P	P		M	66		66									
	19-35	19-35	F35		X	P	P	P													
18-53				X	X				M	53				53							
	19-53				P																
18-66				X	X	P	P		M	66			66								
	19-66				X	P	P														
	19-67			X	3	S	S		M	67			67								
18-68					2																
	19-68	19-68			3	S			I	18						18					
18-96					2				I	9							9				
		19-88							N	88	88										
20-1					X	P	P														
	21-1				X	P/S	P/S		M	79			79								

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Insert Availability and Identification Chart

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Series	Series	Series	Military	MIL-DTL-27599 JT/LJT Solder	Crimp	Hermetics			Service Rating	Total	Contact Size												
						H	Y	TV*			23 HD	22D	22M	22	20	16	16 (Cx)	12 (Cx)	10 (Power)	8 (Power)	8 (Cx)	8†† (Twinax)	4
20-2	JT II	LJT I	TV III	III		X			M	65				65									
20-11		21-2				X			I	11							11						
20-16		21-11	21-11	G11		X			I	16						16							
		21-16	21-16	G16	X	X	P	P	P	25													
		21-25							I	27						25							
		21-27			X				I	27						27							
		21-29			X				I	27						19	4	4					
20-35		21-35	21-35	G35		X	P	P	M	79		79											
20-39		21-39	21-39	G39	X	X	P	P	I	39						37	2						
20-41		21-41	21-41	G41	X	X	P	P	I	41						41							
		21-48							M	4										4			
		21-75	21-75	G75	2	X			N	4											4	(4)	
		21-79	21-79		2	X			II	19		17									2	(2)	
		21-121							N	121	121												
22-1		23-1			X	P/S	P/S		M	100			100										
22-2		23-2		X	X	P	P		M	85				85									
		23-6	23-6	X	P				M	6												6	
22-14		23-14	23-14		2	◆			I	14							14						
22-21		23-21	23-21	H21	X	X	P	P	II	21						21							
22-32		23-32		X	X	P	P		I	32						32							
		23-34		X	P				I	34						34							
22-35		23-35	23-35	H35	X	P/S	P/S		M	100		100											
22-53		23-53	23-53	H53	X	X	P/S	P/S	I	53						53							
		23-54			X				M	53		40				9	4						
22-55		23-55	23-55	H55	X	P	P		I	55						55							
		23-63			S				M	57		49					4	4					
		23-97		X					II	16						16							
		23-99		X					II	11						11							
		23-151							N	151	151												
24-1		25-1			X	P	P		M	128			128										
24-2		25-2			X				M	100				100									
24-4		25-4	25-4	J4	X	P	P		I	56					48	8							
		25-7	25-7	J7	X				M	99		97									2		
		25-8	25-8	J8	◆				Twx	8												8	
		25-11	25-11	J11	2	◆			N	11					2			9					
		25-16							M	8					6								2
		25-17			◆				M	42		36										6	
24-19		25-19	25-19	J19	X	P	P		I	19							19						
		25-20	25-20	J20	2	◆			N	30					10	13		4				3	

- X Completely tooled.
- + Majority of tooling is completed (contact Amphenol Aerospace for availability).
- ◆ Not tooled for 02-R.
- P Available with Pin contacts only
- S Available with Socket contacts only
- P/S Available with Pin contacts or Socket contacts
- ★ Ground plane proprietary option available. Arrg. 9-5, 26-62 is exclusively ground plane type.
- Not Mil-Qualified.
- ◇ 21-75 is Mil-Qualified with twinax contacts only.
- * Hermetic inserts - solder termination standard. (Contact Amphenol Aerospace for optional PCB or eyelet termination).

- HD designates High Density 38999 Series III insert patterns which use size 23 contacts only. Not rated over 175°C.
- ** Two size 16 contacts dedicated to fiber optics. See the Fiber Optic Section for more information.
- *** For use in MIL-STD-1760 applications (see pages 75 and 76).
- † For RG 180/U and RG 195/U cables only.
- †† Size 8 Coax and Twinax are interchangeable.
- (2) Not Tooled for RP or 02RE
- (3) Pin inserts only, not tooled for RP or 02RE (Consult Amphenol for avail.)
- (4) MS connector 21-75 is supplied with size 8 twinax. Commercial connector 21-75 is supplied with size 8 coax.
- (5) MS Connector 21-79 has provision for two size 8 coax contacts. Coax contacts are not supplied unless specified by customer.
- (PWR) Suffix at end of part number to replace coax, twinax, and fiber contacts with power contacts.

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Availability and Identification Chart

Series	Series	Series	Military	MIL-DTL-27599		Hermetics					Contact Size												38999
JT II	LJT I	TV III	III	JT/LJT Solder	Crimp	H	Y	TV*	Service Rating	Total Contacts	23 HD	22D	20	16	12 (Fiber)	12 (Coax)	10	8 (Coax)	8†† (Twinax)	8 Quadrax	4	III	
24-24					X	P	P		I	24				12		12							II
	25-24★	25-24★	J24		X	P	P															I	
		25-26■★			+				I	25			16			5		4					SJT
24-29					X				I	29				29									Access
	25-29★	25-29★	J29	X	X																		
24-35					X	P	P		New														
	25-35	25-35	J35		X	P	P	P	M	128		128											Aquacon
24-37					X				I	37				37									
	25-37★	25-37★	J37		X																		
		25-41■							N	Inst.	41		22	3	11		2		3				
24-43■					3																		
	25-43	25-43	J43	X	2	◆			I	43			23	20									
	25-46	25-46	J46		2	◆			I	46			40	4				2					
24-61					X		P	P															
	25-61	25-61	J61	X	X	P	P	P	I	61			61										
		25-62 ■★			X	◆			I	12				8							4		
		25-90	J90		◆				I	46			40	4					2				
		25-187 ■							N	187	187												
		25-1A ■							N	8				4								4	
		25-AT ■			X				M	60		31	12	11	2		2		2				
		25-F4 ■			X				M/I	66		49		13		4							

TV SERIES III

SELECT SHELL SIZE - SPECIAL INSERT ARRANGEMENT

(Not Mil-Spec Qualified)

Shell Size-Insert Arrg.	Crimp	Hermetics*	Service Rating	Total Contacts	Comments	Contact Size			
						22D	20	16	12
9-2	X		I	2	Formerly Pyle		2		
15-4	X		II	4	Formerly Pyle			4	
15-25	X		M	25	Formerly Pyle	22		3	
17-20	X		M	20	Formerly Pyle	16			4
21-12	X		I	12	Formerly Pyle		3		9
21-21	X		M/Inst.	41	Improved sealing	32			9
21-99	X		M	16	Formerly Pyle	5			11
25-92	X		M	101	Formerly Pyle	92		9	
25-97	X		M	42	Formerly Pyle	26		3	13

LJT SERIES I

SELECT SHELL SIZE - SPECIAL INSERT ARRANGEMENT

(Not Mil-Spec Qualified)

Shell Size-Insert Arrg.	Crimp	Service Rating	Total Contacts	Comments	Contact Size			
					22D	20	16	12
25-64	X		64	Formerly Pyle	40	8	10	6

SELECT NON-STANDARD SHELL SIZE

- Special Insert Arrangement

Shell Size-Insert Arrg.	Crimp	Hermetics*	Service Rating	Total Contacts	Contact Size				
					22D	20	8	4	0
25L-3	X		II	3			1	2	
25L-7	X		II	7			7		
33-3	X		II	3				1	2
33-5	X		II	5				5	
33-6	X		II	6			2	4	
37-5	X		II	4					4

(Insert arrangements requiring non-standard shells)

- X Completely tooled.
- + Majority of tooling is completed (contact Amphenol Aerospace for availability).
- ◆ Not tooled for 02-R.
- P Pin inserts only (contact Amphenol Aerospace for socket availability).
- ★ Ground plane proprietary option available. Arrangement 9-5, 25-62 is exclusively ground plane type.
- Not Mil-Qualified.
- * Hermetic inserts - solder termination standard. (Contact Amphenol Aerospace for optional PCB or eyelet termination).
- ** Two size 16 contacts dedicated to fiber optics. See the Fiber Optic section for more information.
- *** For use in MIL-STD-1760 applications (pgs. 75 and 76).
- † For RG 180/U and RG 195/U cables only.
- †† Size 8 Coax and Twinax are interchangeable.
- Note: 25L-3 and 25L-7 use longer shells.
- (PWR) Suffix at end of part number to replace coax, twinax, and fiber contacts with power contacts.

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Arrangements

Front face of pin inserts illustrated

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Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

8-2	8-3	9-5	8-6	9-6	9-7	9-9 HD	9-22	8-35	8-44	9-35	8-97	8-98	11-2
	9-3		9-6	9-7				9-35	9-44			9-98	11-2
M	M	Grounded	M	M	N	I	M	M	M	M	M	I	I
2	3	1	6	7	9	2	6	4	2	2	2	3	2
20	20	8 Twinax	22M	22M	23	20	22D	22	20	22M	20	20	16

Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

10-4	10-5	11-6	10-13	10-35	10-98	10-99	12-3	12-4
11-4	11-5	11-13	11-19 HD	11-35	11-98	11-99	13-3	13-4
I	I	I	M	N	M	I	I	I
4	5	6	13	19	13	4	6	7
20	20	20	22M	23	22D	22D	20	20

Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

12-8	12-22	13-8	13-22	12-35	13-35	12-98	13-98	14-4	14-5
13-8	13-22	13-26	13-32 HD	13-35	13-63	13-98	15-AT	15-4	15-5
I	M	M	N	M	I	I	I	I	II
8	22	6	2	32	22	2	2	10	10
20	22M	22D	12	23	22D	16	12	20	22D

Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

14-15	14-18	14-19	14-35	14-37	14-68	14-97
15-15	15-18	15-19	15-25	15-35	15-55 HD	15-97
I	I	I	M	M	N	I
14	1	18	19	22	3	37
20	16	20	20	22D	16	22M

Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

16-6	16-8	16-13	17-2	17-6	17-8	17-22
17-EA	17-EC	17-2	17-6	17-8	17-13	17-22
I	I	I	I	II	I	Coax
10	3	2	4	32	9	38
20	16	12	22D	20	22D	8 Twinax

HD: High Density HD38999 (use size 23 contacts only)

CONTACT LEGEND

8 10 12 16 20 22 22M 22D 23

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Arrangements

Front face of pin inserts illustrated

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Shell Size & Insert Arrg. for:							
Series II JT		16-26	16-35	16-42		16-55	
Series I LJT	17-25	17-26	17-35	17-42		17-55	
Series III TV		17-26	17-35		17-52		17-60
Service Rating	M	I	M	M	M	M	I/Coax
Number of Contacts	22 2	26	55	42	2	55	8 2
Contact Size	22D 8 Coax	20	22D	22	8 Twinax	22M	22D 8 Coax

Shell Size & Insert Arrg. for:						
Series II JT		16-99		18-11		18-28
Series I LJT		17-99		19-11	19-18	19-28
Series III TV	17-73 HD	17-99	19-FA	19-11	19-18	19-28
Service Rating	N	I	M	II	M	M
Number of Contacts	73	21 2	6 8 7 2	11	14 4	26 2
Contact Size	23	20 16	22D 20 16 12	16	22D 8 Twinax	20 16

Shell Size & Insert Arrg. for:						
Series II JT	18-30		18-32	18-35	18-53	18-66
Series I LJT	19-30		19-32	19-35	19-53	19-66
Series III TV		19-31	19-32	19-35		
Service Rating	I	M	I	M	M	M
Number of Contacts	29 1	2 1 12	32	66	53	66
Contact Size	20 16	8 Coax 12 22D	20	22D	22	22M

Shell Size & Insert Arrg. for:						
Series II JT		18-68		18-96		
Series I LJT	19-67	19-68				
Series III TV			19-88 HD		19-AD	19-FA
Service Rating	M	I	N	I	Inst.	M
Number of Contacts	67	18	88	9	16 1	6 8 7 2
Contact Size	22M	16	23	12	20 8 Twinax	22D 20 16 12

CONTACT LEGEND

8
 10
 12
 16
 20
 22
 22M
 22D
 23

HD: High Density HD38999
(use size 23 contacts only)

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Arrangements

38999

III
II
I
SJT
Access
Aquacon

Front face of pin inserts illustrated

Shell Size &
Insert Arrg. for:

Series II JT	20-1	20-2	20-11	20-16	
Series I LJT	21-1	21-2	21-11	21-16	21-25
Series III TV			21-11	21-16	
Service Rating	M	II	I	II	I
Number of Contacts	79	65	11	16	25
Contact Size	22M	22	12	16	20

Shell Size &
Insert Arrg. for:

Series II JT			20-35	20-39	20-41
Series I LJT	21-27		21-35	21-39	21-41
Series III TV		21-29	21-35	21-39	21-41
Service Rating	I	I	M	1	I
Number of Contacts	27	19 4 4	79	37 2	41
Contact Size	20	20 16 12	22D	20 16	20

Shell Size &
Insert Arrg. for:

Series II JT				22-1	22-2
Series I LJT		21-75	21-79	23-1	23-2
Series III TV	21-48	21-75	21-79	21-121 HD	
Service Rating	M	N	II	N	M
Number of Contacts	4	4	17 (See Note)	121	85
Contact Size	8 power	(See Note)	22D	23	22

HD: High Density HD38999 (use size 23 contacts only)
Note: MS connector 21-75 is supplied with four size 8 twinax contacts.
 Commercial connector 21-75 is supplied with four size 8 coax contacts.
 MS connector 21-79 has provision for two size 8 coax contacts.
 Coax contacts are not supplied unless specified by customers.

8	10	12	16	20	22	22M	22D	23

CONTACT LEGEND

MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Arrangements

Front face of pin inserts illustrated

38999

III

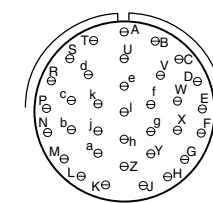
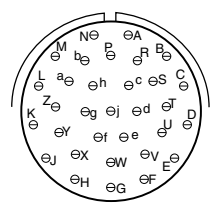
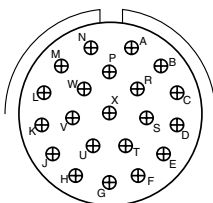
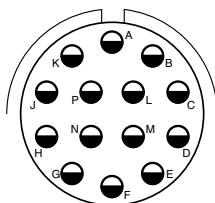
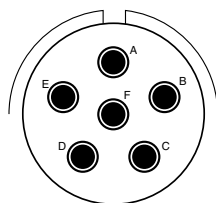
II

I

SJT

Access

Aquacon



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

23-6

23-6

M

6

8 Twinax

22-14

23-14

I

14

12

22-21

23-21

II

21

16

22-32

23-32

I

32

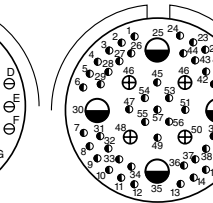
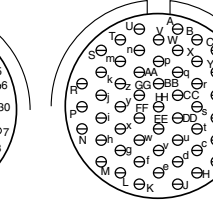
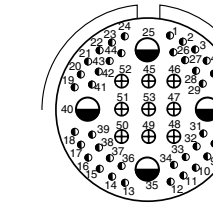
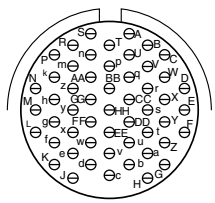
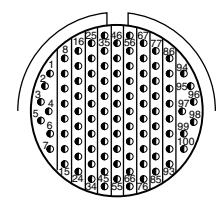
20

23-34

I

34

20



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

22-35

23-35

M

100

22D

22-53

23-53

I

53

20

23-54

M

40

9

4

22D

16

12

22-55

23-55

I

55

20

23-63

M

49

4

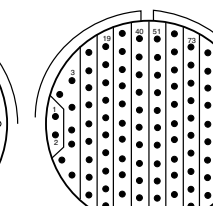
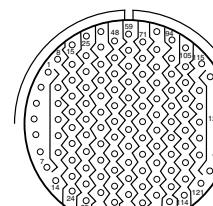
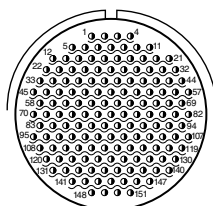
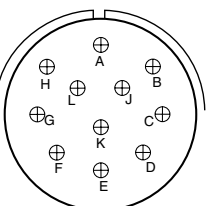
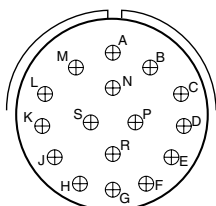
4

22D

16

12

Coax Coax



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

23-97

23-97

II

16

16

23-99

23-99

II

11

16

23-151 HD

N

151

23

24-1

25-1

M

128

22M

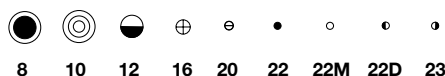
24-2

25-2

M

100

22



CONTACT LEGEND

8

10

12

16

20

22

22M

22D

23

HD: High Density HD38999
(use size 23 contacts only)

MIL-DTL-38999, Series I LJT, II JT, III TV

Insert Arrangements

38999

III

II

I

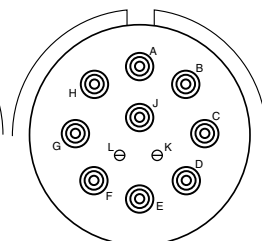
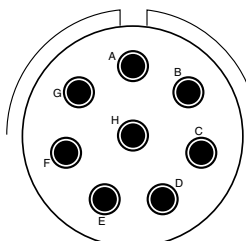
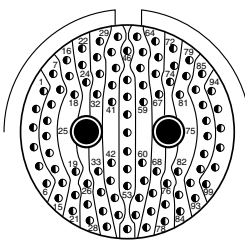
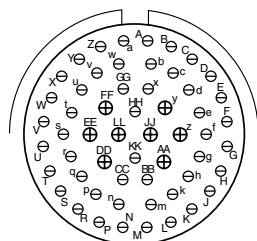
SJT

Access

Aquacon

Series III, II, I

Front face of pin inserts illustrated



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

24-4

25-4

25-4

I

48

8

20

16

25-7

25-7

M

97

2

22D

8 Twinax

25-8

Twinax

8

8 Twinax

25-11

25-11***

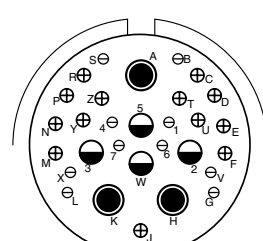
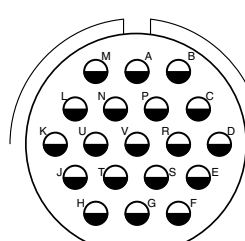
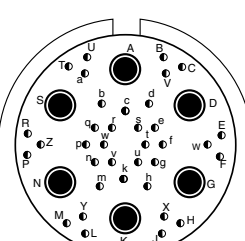
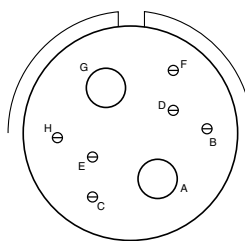
N

2

9

20

10



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

25-16

M

6

2

20

4

25-17

M

36

6

22D

8 Twinax

24-19

25-19

25-19

I

19

12

25-20

25-20***

N

10

13

3

4

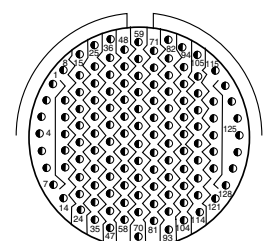
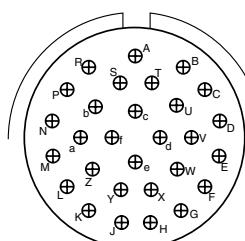
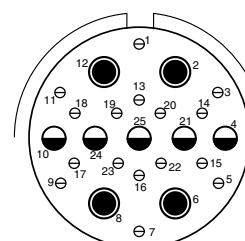
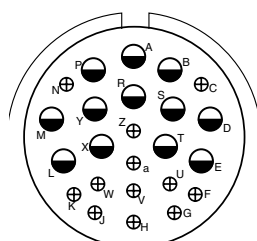
20

16

8 Twinax

12 Coax

(With Matched Impedance)



Shell Size &
Insert Arrg. for:

Series II JT

Series I LJT

Series III TV

Service Rating

Number of Contacts

Contact Size

24-24

25-24

25-24

I

12

12

16

12

25-26

I

16

5

20

12 8 Coax

24-29

25-29

25-29

I

29

16

24-35

25-35

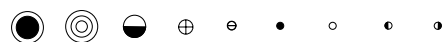
25-35

M

128

22D

*** For use in MIL-STD-1760 applications (see pages 75 and 76).



CONTACT LEGEND

8

10

12

16

20

22

22M

22D

23

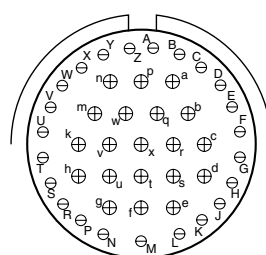
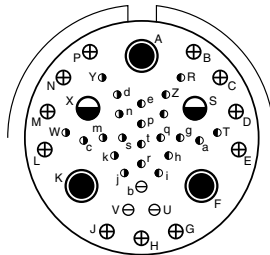
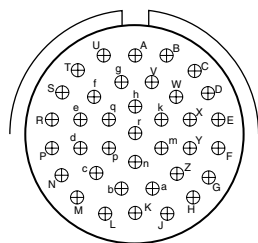
MIL-DTL-38999, Series I LJT, II JT, III TV, HD

Insert Arrangements

Front face of pin inserts illustrated

38999

III
II
I
SJT
Access
Aquacon



Shell Size &
Insert Arr. for:

Series II JT

Series I LJT

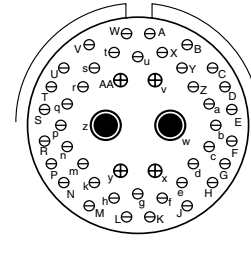
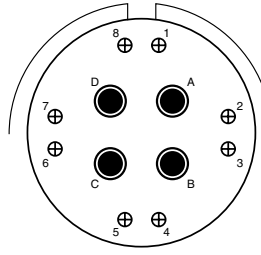
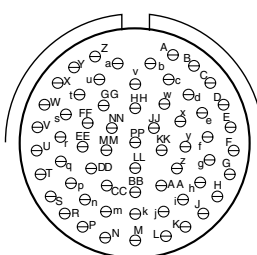
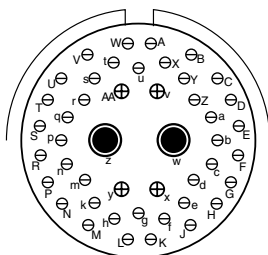
Series III TV

Service Rating

Number of Contacts

Contact Size

24-37		25-43
25-37		25-43
25-37	25-41	25-43
I	N/Inst.	I
37	22 3 11 2 3	23 20
16	22D 20 16 12 Coax 8 Twinax	20 16



Shell Size &
Insert Arr. for:

Series II JT

Series I LJT

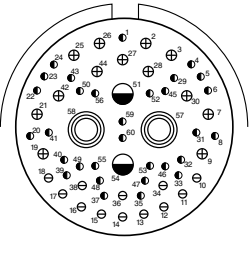
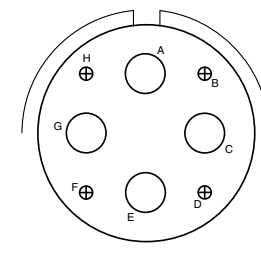
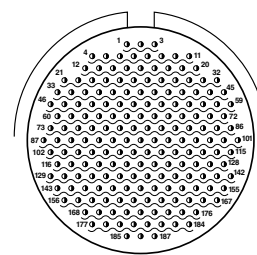
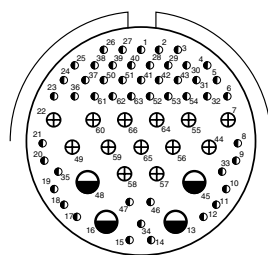
Series III TV

Service Rating

Number of Contacts

Contact Size

25-46	24-61		
25-46	25-61		
25-46	25-61	25-62	25-90
I	I	I	I
40 4 2	61	8 4	40 4 2
20 16 8 Coax †	20	16 8	20 16 8 Twinax
		Ground Plane Only	



Shell Size &
Insert Arr. for:

Series II JT

Series I LJT

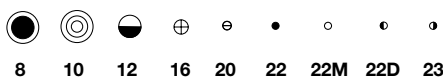
Series III TV

Service Rating

Number of Contacts

Contact Size

25-F4	25-187 HD	25-1A	25-AT
Size 22D=M, Balance =I	N	N	N
49 13 4	187	4 4	2 2 13 12 31
22D 16 12	23	16 4	10 12 16 20 22D



CONTACT LEGEND

† Coax contacts for RG180/U or RG195/U cable.

HD: High Density HD38999
(use size 23 contacts only)

MIL-DTL-38999, Series III TV

Special Insert Arrangements

38999

III

II

I

SJT

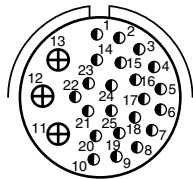
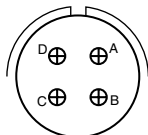
Access

Aquacon

Series III

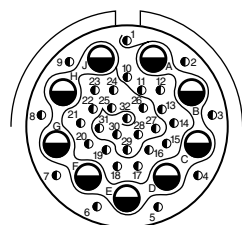
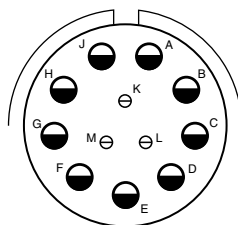
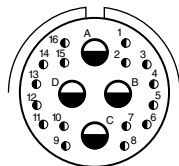
Front face of pin inserts illustrated

Shell Size &
Insert Arrg. for:



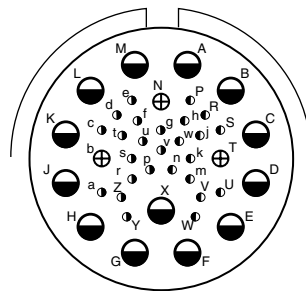
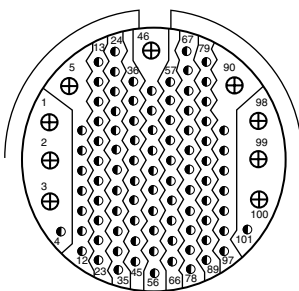
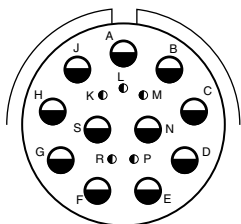
Series III TV	9-2	15-4*	15-25
Service Rating	I	II	M
Number of Contacts	2	4	22 3
Contact Size	20	16	22D 16

Shell Size &
Insert Arrg. for:



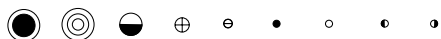
Series III TV	17-20	21-12	21-21
Service Rating	M	I	M/Inst.
Number of Contacts	16 4	3 9	32 9
Contact Size	22D 12	20 12	22D 12

Shell Size &
Insert Arrg. for:



Series III TV	21-99	25-92	25-97
Service Rating	M	M	M
Number of Contacts	5 11	92 9	26 3 13
Contact Size	22D 12	22D 16	22D 16 12

NOTE: Some specials shown here were formerly known as Pyle arrangements.
Consult Amphenol for how to order information for connectors with these inserts.
For further information on special arrangements consult Amphenol Aerospace, Sidney NY.
* Pyle 15-4 does not mate with Amphenol Tri-Start 15-4 insert.



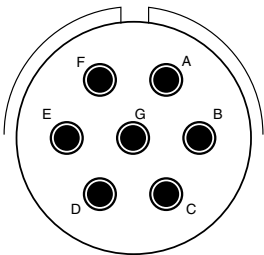
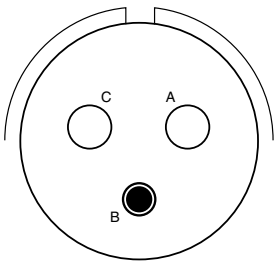
CONTACT LEGEND 8 10 12 16 20 22 22M 22D 23*

MIL-DTL-38999, Series III TV

Special Insert Arrangements

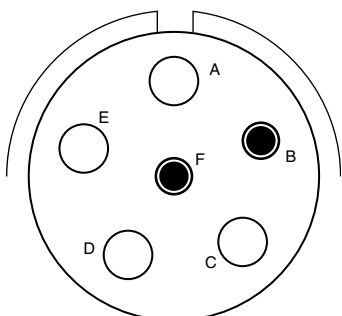
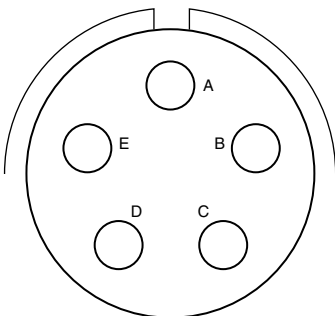
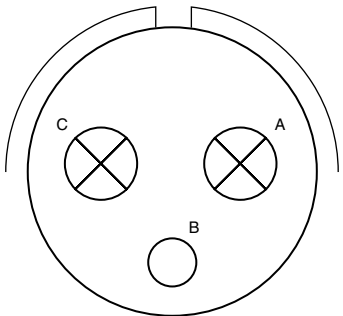
Non-Standard Shells or Large Contacts

Front face of pin inserts illustrated



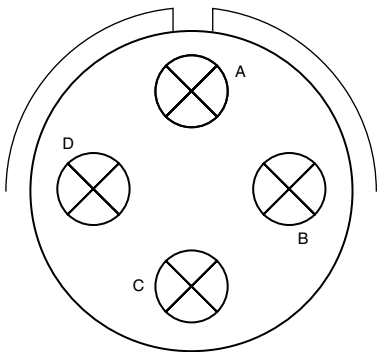
Shell Size &
Insert Arrg. for:

Series III TV	25L-3		25L-7	
Service Rating	II		II	
Number of Contacts	1	2	7	
Contact Size	8	4	8	



Shell Size &
Insert Arrg. for:

Series III TV	33-3		33-5		33-6	
Service Rating	II		II		II	
Number of Contacts	1	2	5		2	4
Contact Size	4	0	4		8	4

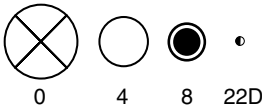


Shell Size &
Insert Arrg. for:

Series III TV	37-5
Service Rating	II
Number of Contacts	4
Contact Size	0

NOTE: Some specials shown here were formerly known as Pyle arrangements. Consult Amphenol for how to order information for connectors with these inserts.
Consult Amphenol Aerospace for longer shell drawings.

CONTACT LEGEND



38999

III
II
I
SJT
Access
Aquacon

Series III

A

PCB Contacts 38999, Series I LJT, II JT, III TV

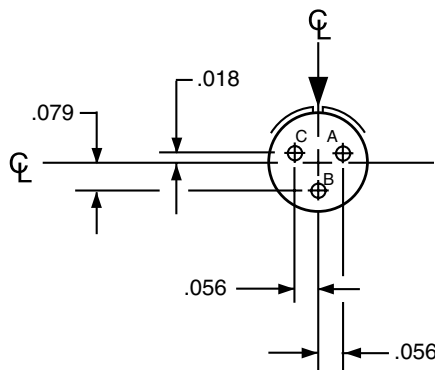
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	8-3	9-3	NA	3	20	M

Contact Locations

Front face of pin insert
shown



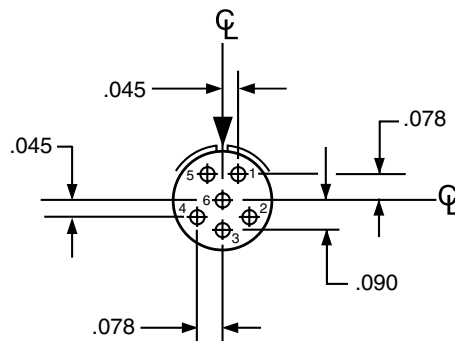
*Service Rating: M for MIL-DTL-38999

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	8-35	9-35	9-35	6	22D	M

Contact Locations

Front face of pin insert
shown



All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.
Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

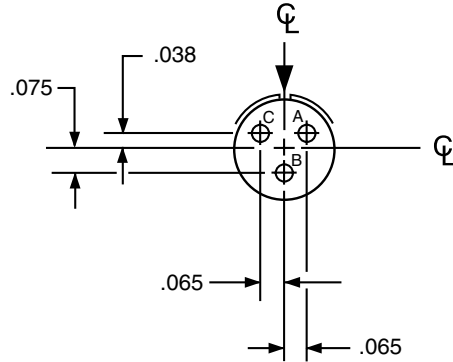
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	8-98	9-98	9-98	3	20	I

Contact Locations

Front face of pin insert shown

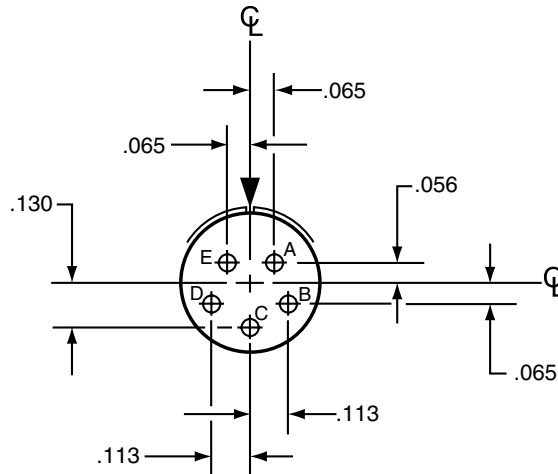


INSERT ARRANGEMENT #10-5 / 11-5

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	10-5	11-5	11-5	5	20	I

Contact Locations

Front face of pin insert shown



All dimensions for reference only. For alternate rotations see page 46 Series III, page 86 Series II, and page 114 Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

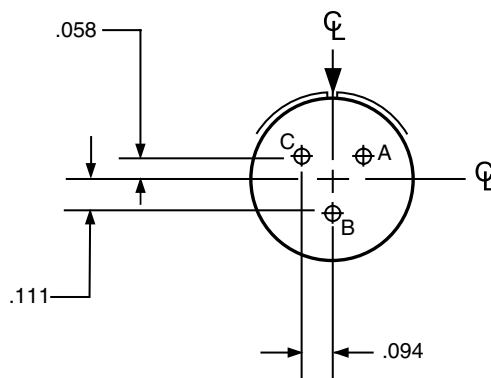
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	12-3	13-3	NA	3	16	II

Contact Locations

Front face of pin insert shown

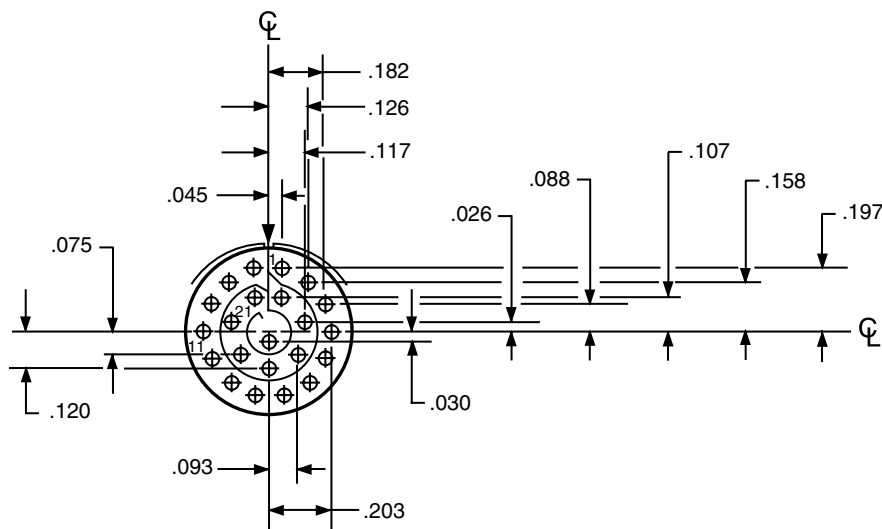


INSERT ARRANGEMENT #12-35 / 13-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	12-35	13-35	13-35	22	22D	M

Contact Locations

Front face of pin insert shown



All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.
Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

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PCB Contacts 38999, Series I LJT, II JT, III TV

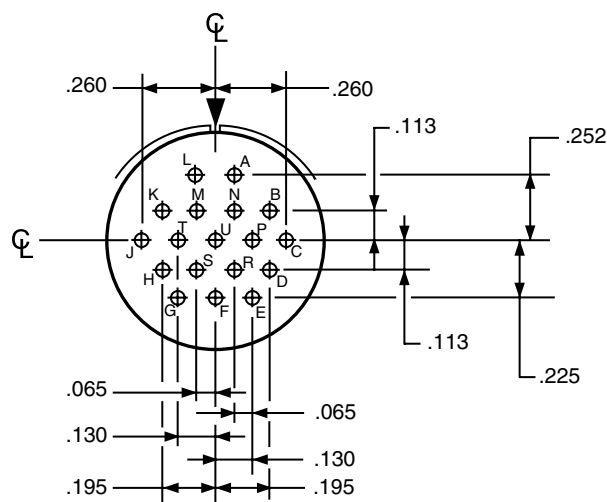
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	14-18	15-18	15-18	18	20	I

Contact Locations

Front face of pin insert shown

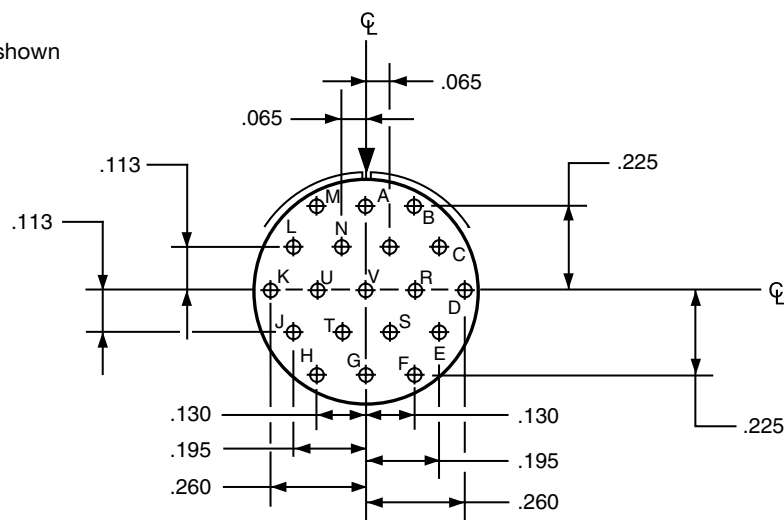


INSERT ARRANGEMENT #14-19 / 15-19

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	14-19	15-19	15-19	19	20	I

Contact Locations

Front face of pin insert shown



All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

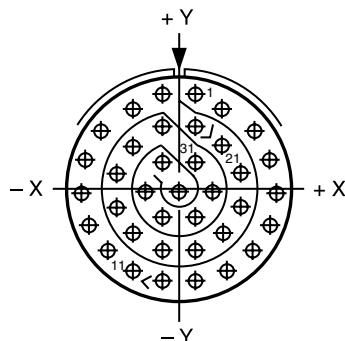
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	14-35	15-35	15-35	37	22D	M

Contact Locations

Front face of pin insert shown



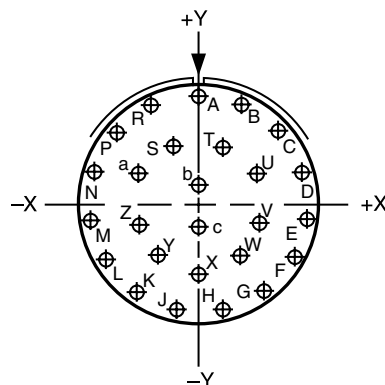
Contact Hole Locations			Contact Hole Locations		
Contact Number	Location		Contact Number	Location	
	X Axis	Y Axis		X Axis	Y Axis
1	+.045	+.262	19	+.045	+.172
2	+.123	+.217	20	+.123	+.119
3	+.211	+.160	21	+.170	+.040
4	+.254	+.080	22	+.170	-.050
5	+.266	-.010	23	+.123	-.127
6	+.247	-.098	24	+.045	-.172
7	+.200	-.175	25	-.045	-.172
8	+.130	-.232	26	-.123	-.127
9	+.045	-.262	27	-.170	-.050
10	-.045	-.262	28	-.170	+.040
11	-.130	-.232	29	-.123	+.119
12	-.200	-.175	30	-.045	+.172
13	-.247	-.098	31	+.045	+.074
14	-.266	-.010	32	+.090	-.004
15	-.254	+.080	33	+.045	-.082
16	-.211	+.160	34	-.045	-.082
17	-.123	+.217	35	-.090	-.004
18	-.045	+.262	36	-.045	+.074
			37	.000	-.004

INSERT ARRANGEMENT #16-26 / 17-26

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	NA	17-26	17-26	26	20	I

Contact Locations

Front face of pin insert shown



Contact Hole Locations			Contact Hole Locations		
Contact Number	Location		Contact Number	Location	
	X Axis	Y Axis		X Axis	Y Axis
A	.000	+.321	R	-.131	+.293
B	+.131	+.293	S	-.070	+.177
C	+.239	+.214	T	+.070	+.177
D	+.305	+.099	U	+.175	+.094
E	+.319	-.034	V	+.178	-.036
F	+.278	-.161	W	+.119	-.151
G	+.189	-.260	X	.000	-.203
H	+.067	-.314	Y	-.119	-.151
J	-.067	-.314	Z	-.178	-.036
K	-.189	-.260	a	-.175	+.094
L	-.278	-.161	b	.000	+.065
M	-.319	-.034	c	.000	-.065
N	-.305	+.099			
P	-.239	+.214			

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

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

For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

Insert Arrangements

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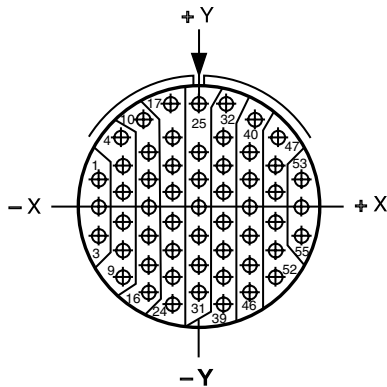
Series III, II, I

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	16-35	17-35	17-35	55	22D	M

Contact Locations

Front face of pin insert shown



Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
1	-.312	+.086
2	-.312	-.004
3	-.312	-.094
4	-.242	+.221
5	-.234	+.131
6	-.234	+.041
7	-.234	-.049
8	-.234	-.139
9	-.234	-.229
10	-.172	+.279
11	-.156	+.176
12	-.156	+.086
13	-.156	-.004
14	-.156	-.094
15	-.156	-.184
16	-.156	-.274
17	-.089	+.316
18	-.078	+.221
19	-.078	+.131
20	-.078	+.041
21	-.078	-.049
22	-.078	-.139
23	-.078	-.229
24	-.078	-.319
25	.000	+.329
26	.000	+.176
27	.000	+.086

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
28	.000	-.004
29	.000	-.094
30	.000	-.184
31	.000	-.274
32	+.089	+.316
33	+.078	+.221
34	+.078	+.131
35	+.078	+.041
36	+.078	-.049
37	+.078	-.139
38	+.078	-.229
39	+.078	-.319
40	+.172	+.279
41	+.156	+.176
42	+.156	+.086
43	+.156	-.004
44	+.156	-.094
45	+.156	-.184
46	+.156	-.274
47	+.242	+.221
48	+.234	+.131
49	+.234	+.041
50	+.234	-.049
51	+.234	-.139
52	+.234	-.229
53	+.312	+.086
54	+.312	-.004
55	+.312	-.094

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.
Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

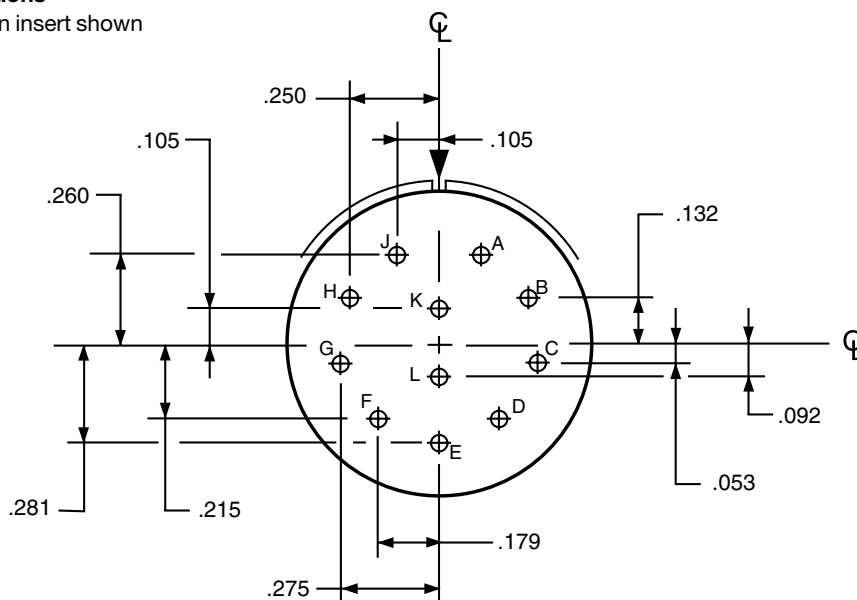
Insert Arrangements

INSERT ARRANGEMENT #18-11 / 19-11

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Number of Contacts	Contact Size	Service Rating
Insert Designation:	18-11	19-11	11	16	II

Contact Locations

Front face of pin insert shown

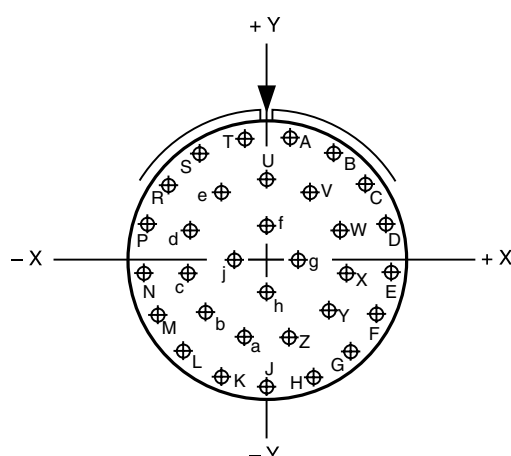


INSERT ARRANGEMENT #18-32 / 19-32

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	18-32	19-32	19-32	32	20	I

Contact Locations

Front face of pin insert shown



Contact Hole Locations		
Contact Letter	Location	
	X Axis	Y Axis
A	+0.066	+0.353
B	+0.189	+0.305
C	+0.286	+0.217
D	+0.345	+0.098
E	+0.357	-0.033
F	+0.321	-0.160
G	+0.242	-0.265
H	+0.130	-0.335
J	.000	-0.359
K	-0.130	-0.335
L	-0.242	-0.265
M	-0.321	-0.160
N	-0.357	-0.033
P	-0.345	+0.098
R	-0.286	+0.217
S	-0.189	+0.305

Contact Hole Locations		
Contact Letter	Location	
	X Axis	Y Axis
T	-0.066	+0.353
U	.000	+0.230
V	+0.124	+0.193
W	+0.209	+0.095
X	+0.228	-0.033
Y	+0.174	-0.151
Z	+0.065	-0.221
a	-0.065	-0.221
b	-0.174	-0.151
c	-0.228	-0.033
d	-0.209	+0.095
e	-0.124	+0.193
f	.000	+0.096
g	+0.096	.000
h	.000	-0.096
j	-0.096	.000

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

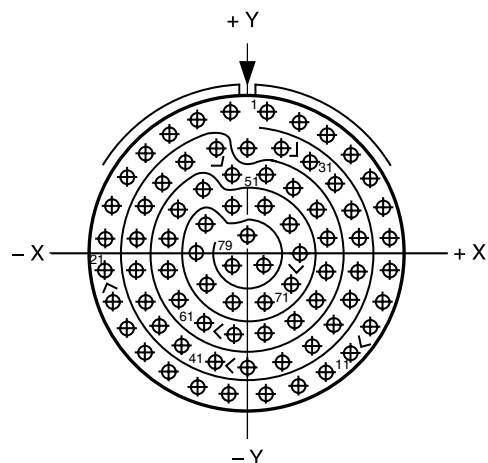
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	20-35	21-35	21-35	79	22D	M

Contact Locations

Front face of pin insert shown



Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
1	+ .053	+ .426
2	+ .146	+ .404
3	+ .232	+ .362
4	+ .306	+ .302
5	+ .365	+ .227
6	+ .406	+ .141
7	+ .427	+ .048
8	+ .427	- .048

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
9	+ .406	- .141
10	+ .365	- .227
11	+ .306	- .302
12	+ .232	- .362
13	+ .146	- .404
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

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
43	- .258	- .220
44	- .311	- .141
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 page 46 for Series III, page 86 for Series II, and page 114 for Series I.
Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

Insert Arrangements

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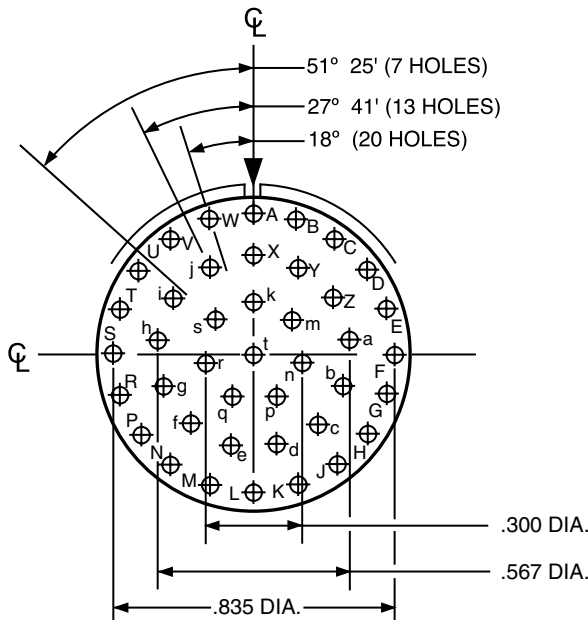
Access

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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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	20-41	21-41	21-41	41	20	I

Contact Locations
Front face of pin insert shown



All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.
 Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

Insert Arrangements

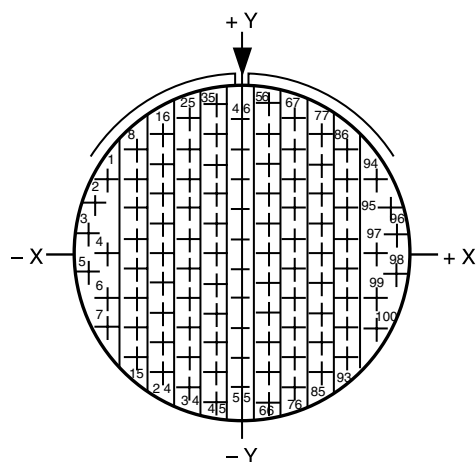
INSERT ARRANGEMENT #22-35 / 23-35

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III
Insert Designation:	22-35	23-35	23-35

Number of Contacts	Contact Size	Service Rating
100	22D	M

Contact Locations

Front face of pin insert shown



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
18	-.249	+.190
19	-.249	+.095

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
20	-.249	.000
21	-.249	-.095
22	-.249	-.190
23	-.249	-.285
24	-.249	-.380
25	-.166	+.428
26	-.166	+.333
27	-.166	+.238
28	-.166	+.143
29	-.166	+.048
30	-.166	-.047
31	-.166	-.142
32	-.166	-.237
33	-.166	-.332
34	-.166	-.427
35	-.083	+.475
36	-.083	+.380
37	-.083	+.285
38	-.083	+.190
39	-.083	+.095
40	-.083	.000
41	-.083	-.095
42	-.083	-.190
43	-.083	-.285
44	-.083	-.380
45	-.083	-.475
46	.000	+.428
47	.000	+.333
48	.000	+.238
49	.000	+.143
50	.000	+.048
51	.000	-.047
52	.000	-.142
53	.000	-.237
54	.000	-.332
55	.000	-.427
56	+.083	+.475
57	+.083	+.380
58	+.083	+.285
59	+.083	+.190

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
60	+.083	+.095
61	+.083	.000
62	+.083	-.095
63	+.083	-.190
64	+.083	-.285
65	+.083	-.380
66	+.083	-.475
67	+.166	+.428
68	+.166	+.333
69	+.166	+.238
70	+.166	+.143
71	+.166	+.048
72	+.166	-.047
73	+.166	-.142
74	+.166	-.237
75	+.166	-.332
76	+.166	-.427
77	+.249	+.380
78	+.249	+.285
79	+.249	+.190
80	+.249	+.095
81	+.249	.000
82	+.249	-.095
83	+.249	-.190
84	+.249	-.285
85	+.249	-.380
86	+.332	+.333
87	+.332	+.238
88	+.332	+.143
89	+.332	+.048
90	+.332	-.047
91	+.332	-.142
92	+.332	-.237
93	+.332	-.332
94	+.428	+.241
95	+.467	+.154
96	+.488	+.061
97	+.415	.000
98	+.488	-.061
99	+.428	-.142
100	+.428	-.237

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

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PCB Contacts 38999, Series I LJT, II JT, III TV

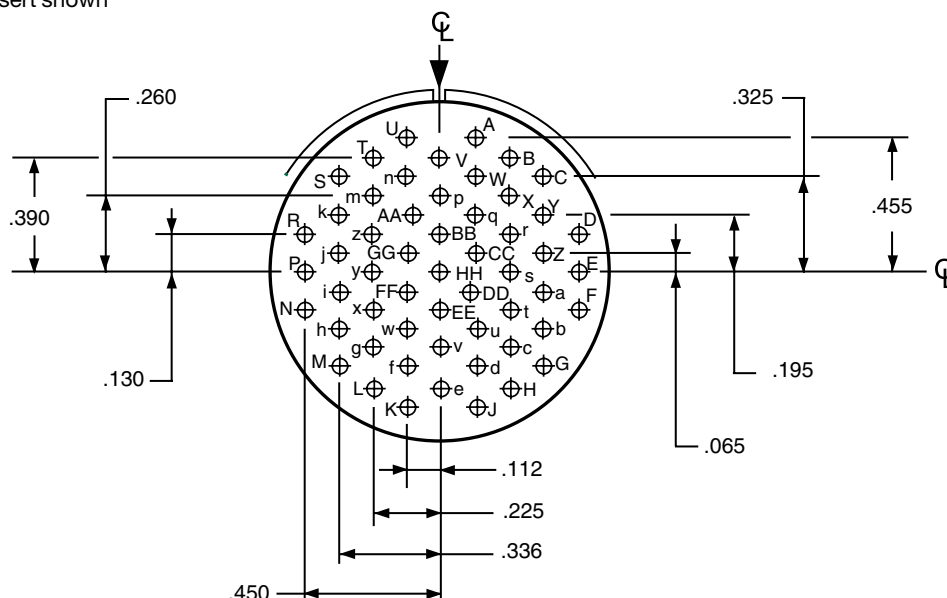
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	22-55	23-55	23-55	55	20	I

Contact Locations

Front face of pin insert shown

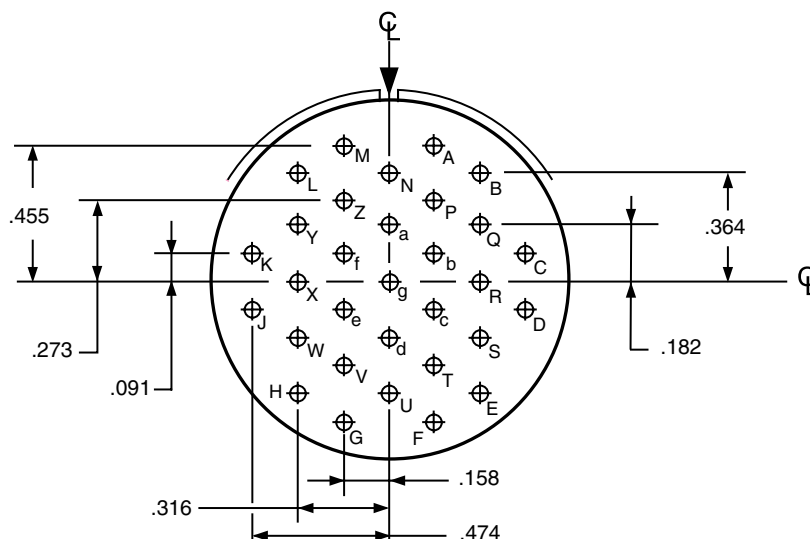


INSERT ARRANGEMENT #24-31 / 25-31

Connector Type:	JT MIL-DTL-38999 Series II	LJT MIL-DTL-38999 Series I	Tri-Start MIL-DTL-38999 Series III	Number of Contacts	Contact Size	Service Rating
Insert Designation:	24-31	NA	NA	31	16	I

Contact Locations

Front face of pin insert shown



All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.
Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

PCB Contacts 38999, Series I LJT, II JT, III TV

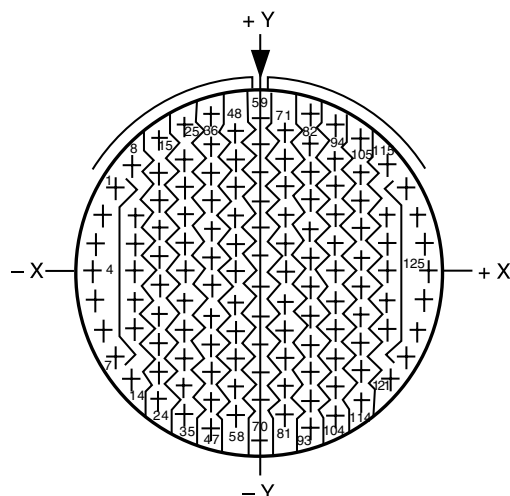
Insert Arrangements

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	24-35	25-35	25-35	128	22D	M

Contact Locations

Front face of pin insert shown



Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
1	-.479	+.279
2	-.520	+.190
3	-.546	+.095
4	-.555	.000
5	-.546	-.095
6	-.520	-.190
7	-.479	-.279
8	-.424	+.357
9	-.415	+.190
10	-.415	+.095
11	-.415	.000
12	-.415	-.095
13	-.415	-.190
14	-.424	-.357
15	-.332	+.444
16	-.332	+.332
17	-.332	+.237
18	-.332	+.142
19	-.332	+.047
20	-.332	-.047
21	-.332	-.142
22	-.332	-.237
23	-.332	-.332
24	-.332	-.427
25	-.249	+.496
26	-.249	+.380
27	-.249	+.285
28	-.249	+.190

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
29	-.249	+.095
30	-.249	.000
31	-.249	-.095
32	-.249	-.190
33	-.249	-.285
34	-.249	-.380
35	-.249	-.475
36	-.166	+.531
37	-.166	+.427
38	-.166	+.332
39	-.166	+.237
40	-.166	+.142
41	-.166	+.047
42	-.166	-.047
43	-.166	-.142
44	-.166	-.237
45	-.166	-.332
46	-.166	-.427
47	-.166	-.522
48	-.083	+.475
49	-.083	+.380
50	-.083	+.285
51	-.083	+.190
52	-.083	+.095
53	-.083	.000
54	-.083	-.095
55	-.083	-.190
56	-.083	-.285
57	-.083	-.380
58	-.083	-.475
59	.000	+.522
60	.000	+.427
61	.000	+.332
62	.000	+.237
63	.000	+.142
64	.000	+.047
65	.000	-.047
66	.000	-.142
67	.000	-.237
68	.000	-.332
69	.000	-.427
70	.000	-.555
71	+.083	+.475
72	+.083	+.380
73	+.083	+.285
74	+.083	+.190
75	+.083	+.095
76	+.083	.000
77	+.083	-.095
78	+.083	-.190

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
79	+.083	-.285
80	+.083	-.380
81	+.083	-.475
82	+.166	+.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
108	+.332	+.142
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

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

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Series III, II, I

PCB Contacts 38999, Series I LJT, II JT, III TV

Insert Arrangements

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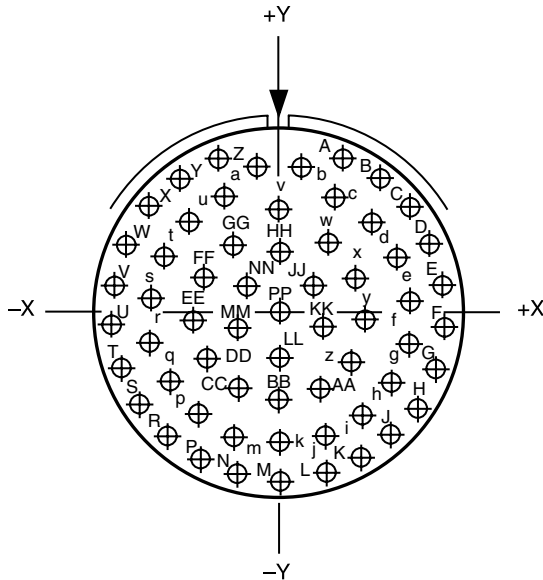
Series III, II, I

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	Number of Contacts	Contact Size	Service Rating
Insert Designation:	24-61	25-61	25-61	61	20	I

Contact Locations

Front face of pin insert shown



Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
A	+ .196	+ .500
B	+ .314	+ .435
C	+ .413	+ .343
D	+ .485	+ .230
E	+ .527	+ .101
F	+ .536	- .030
G	+ .511	- .164
H	+ .454	- .287
J	+ .368	- .391
K	+ .259	- .470
L	+ .134	- .519
M	.000	- .537
N	- .134	- .519
P	- .259	- .470
R	- .368	- .391
S	- .454	- .287
T	- .511	- .164
U	- .536	- .030
V	- .527	+ .101
W	- .485	+ .230
X	- .413	+ .343
Y	- .314	+ .435
Z	- .196	+ .500
a	- .068	+ .454
b	+ .068	+ .454
c	+ .173	+ .363
d	+ .285	+ .283
e	+ .362	+ .175
f	+ .399	+ .046
g	+ .392	- .088

Contact Hole Locations		
Contact Number	Location	
	X Axis	Y Axis
h	+ .341	- .213
i	+ .251	- .314
j	+ .133	- .379
k	.000	- .402
m	- .133	- .379
n	- .251	- .314
p	- .341	- .213
q	- .392	- .088
r	- .399	+ .046
s	- .362	+ .175
t	- .285	+ .283
u	- .173	+ .363
v	.000	+ .338
w	+ .147	+ .223
x	+ .237	+ .122
y	+ .267	- .010
z	+ .228	- .139
AA	+ .131	- .233
BB	.000	- .267
CC	- .131	- .233
DD	- .228	- .139
EE	- .267	- .010
FF	- .237	+ .122
GG	- .147	+ .223
HH	.000	+ .200
JJ	+ .105	+ .094
KK	+ .135	- .041
LL	.000	- .132
MM	- .135	- .041
NN	- .105	+ .094
PP	.000	.000

All dimensions for reference only. For alternate rotations see page 46 for Series III, page 86 for Series II, and page 114 for Series I.

Note: Shown in this catalog are the most common insert patterns for PCB applications. For availability of other arrangements, consult Amphenol Aerospace.

B



TABLE OF CONTENTS FOR SECTION B

MIL-DTL-38999, Series II JT

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Insert Arrangement Drawings 6-10

PCB Insert Arrangements 14-28

Contact rating/Service Rating/Sealing Plugs 29-31

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How to Order (Commercial). 87-89

JT Shell Styles:

Crimp Wall Mounting Receptacle JT00R (MS27472) 90

Crimp Wall Mounting Receptacle for Back Panel

Mounting JTPQ00R (MS27497) 91

Crimp Line Receptacle JT01R. 92

Crimp Box Mounting Receptacles JT02RE

(MS27499), JT02RE(053) (MS27513) 93

Crimp Box Mounting Receptacle for Back Panel

Mounting JTP02R (MS27508) 94

Crimp Jam Nut Receptacle JT07R (MS27474) . . 95

Crimp Jam Nut Receptacle (Miniature Jam Nut

Mounting Dimensions) JTL07R 96

Crimp Straight Plug JT06R (MS27473) 97

Crimp Straight Plug with Grounding Fingers

JTG06R (MS27484) 98

Crimp 90° Plug JT08R (MS27500) 99

HERMETIC:

Hermetic Wall Mounting Receptacle JT00 (MS27475),

Hermetic Box Mounting Receptacle

JT02 (MS27476) 100

Hermetic Jam Nut Receptacle JT07

(MS27477 & MS27483)

Hermetic Solder Mounting Receptacle JTI

(MS27478 & MS27508) 101

Solder Wall Mounting Receptacle JT00 (MS27334),

Solder Box Mounting Receptacle JT02 (MS27335) . 102

Solder Straight Plug JT06 (MS27336),

Solder Straight Plug with Grounding Ring JTG06A . 103

Solder Jam Nut Receptacle JT07 (MS27337),

Solder 90° Plug JT08 104

PCB:

PCB Wall Mounting Receptacle (JTPQ00R). 105

PCB Box Mounting Receptacle, Back Panel

(JTP02R) 106

PCB jam Nut Receptacle (JT07) 107

PCB Wall Mounting Receptacle Hermetic (JT00). . 108

PCB box Mounting Receptacle Hermetic (JT02) . . 109

PCB Jam Nut Receptacle Hermetic (JT07) 110

PCB Solder Mounting Receptacle Hermetic (JTI) . 111

Accessories:

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Military to Commercial Shell Style Conversion Table

How to Order (Military)

MILITARY	DESCRIPTION	COMMERCIAL
MS27472	Crimp Wall Mounting Receptacle	JT00
MS27497	Crimp Wall Mounting Receptacle (Back Panel Mounting)	JTPQ00
MS27499	Crimp Box Mounting Receptacle	JT02, JTS02, JTN02
MS27513	Crimp Box Mounting Receptacle with grommet	JT02, JTS02, JTN02
MS27508	Crimp Box Mounting Receptacle (Back Panel Mounting)	JTP02, JTPN02, JTPS02
MS27473	Crimp Straight Plug	JT06, JTS06, JTN06
MS27484	Crimp Straight Plug with Grounding Fingers	JTG06, JTNG06
MS27474	Crimp Jam Nut Receptacle	JT07, JTS07, JTN07
MS27500	Crimp 90° plug	JT08, JTS08, JTN08
MS27475	Hermetic Wall Mounting Receptacle	JT00
MS27476	Hermetic Box Mounting Receptacle	JT02, JTS02
MS27477	Hermetic Jam Nut Receptacle	
MS27478	Hermetic Solder Mounting Receptacle	JTSIY
MIL-DTL-27599		
MS27334	Solder Wall Mounting Receptacle	JT00
MS27335	Solder Box Mounting Receptacle	JT02
MS27336	Solder Straight Plug	JT06
MS27337	Solder Jam Mounting Receptacle	JT07

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HOW TO ORDER - MILITARY SERIES II

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finishes	Insert Arrangement	Contact Style (P or S)	Alternate Keying Position
MS27472	E	14	A	18	P	A

1. MS NUMBER SERIES II JT

MS27472	Crimp Wall Mount Receptacle
MS27497	Crimp Wall Mount Receptacle (Back Panel Mounting)
MS27499	Crimp Box Mounting Receptacle
MS27513	Crimp Box Mounting Receptacle with grommet
MS27508	Crimp Box Mounting Receptacle (Back Panel Mounting)
MS27473	Crimp Straight Plug
MS27484	Crimp Straight Plug with Grounding Fingers
MS27474	Crimp Jam Nut Receptacle
MS27500	Crimp 90° plug
MS27475	Hermetic Wall Mounting Receptacle
MS27476	Hermetic Box Mounting Receptacle
MS27477	Hermetic Jam Nut Receptacle
MS27478	Hermetic Solder Mounting Receptacle

MIL-DTL-27599

MS27334	Solder Wall Mount Receptacle
MS27335	Solder Box Mounting Receptacle
MS27336	Solder Straight Plug
MS27337	Solder Jam Mounting Receptacle

2. HERMETIC SERVICE CLASS

WALL MOUNT (475)	
BOX MOUNT (476)	
JAM NUT (477)	
SOLDER MOUNT (478)	
Y	Hermetically interfacial seal

Service Class continues on next page.

MIL-DTL-38999/27599, Series II JT

How to Order (Military)

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2. SERVICE CLASS

CRIMP		SOLDER			
WALL MOUNT (472)	BOX MOUNT (499)	WALL MOUNT (334)	JAM NUT (337)	BOX MOUNT (335)	
WALL MOUNT BPM (497)	BOX MOUNT GROMMET (513)	STRAIGHT PLUG (336)			
STRAIGHT PLUG (473)	BOX MOUNT BPM (508)				
STRAIGHT PLUG GF (484)	90° Plug (500)				
JAM NUT (474)					
E	E				Environmental crimp applications. Box Mount versions using spacer grommets are not environmental.
P		P	P		Potting crimp applications. Supplied with spacer grommet and potting boot.
T		T		T	Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells.

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finishes	Insert Arrangement	Contact Style (P or S)	Alternate Keying Position
MS27472	E	14	A	18	P	A

3. & 5. SHELL SIZE

See table on page 2-5

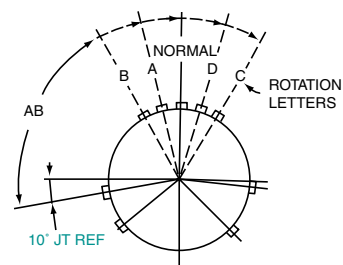
Shell Size & Insert Arrangement are on pages 2-5. First number represents Shell Size, second number is the Insert Arrangement. Place Shell Size in box 3 and Insert Arrangement in box 5.

4. FINISHES

Finish	Military Finish Data
Cadmium plated nickel base 175°C	A
Olive drab cadmium plate nickel base 175°C	B
Electroless nickel 200°C	F
Electroless nickel, space compatible 200°C	
Anodic coating (Alumilite) 200°C	C
Chromate treated (Iridite 14-2) 125°C	
Passivated steel 200°C	E
Nickel-PTFE 175°C	

6. CONTACTS

P	Pin Contacts
S	Socket Contacts



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

JT Key/Keyway Rotation

AB ANGLE OF ROTATION (Degrees)

Shell Size	Normal	A	B	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°

7. SELECT AN ALTERNATE KEYING POSITION

"A" designates Alternate keying connector assembly. Other basic alternate keys are "B", "C" and "D". No letter required for normal rotation (no rotation) position.

A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The AB angle for a given connector is the same whether it contains pins or sockets. Only the master key/keyway rotates in the shell, and the minor keys are fixed.

AB angles shown are viewed from the front face of the connector, a receptacle is shown below. The angles for the plug are exactly the same except the direction of rotation is opposite of that shown for the receptacle.

The "N" designation is not referenced in part number, it is omitted.

B

MIL-DTL-38999/27599, Series II JT

How to Order (Commercial)

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1. Type & Style	2. Service Class	3. Shell Size-Insert Arr.	4. Contact Type	5. Alternate Position	6. Strain Relief/Finish Variation Suffix
JT00	RT	9-35	P	B	SR (014)

		MIL-DTL-38999, SERIES II					
		Standard Junior Tri-Lock	High Temperature	Chemical and Fuel Resistant	Miniature Mounting Dimensions	Miniature Mounting Dimensions/ Chemical Resistant	Miniature Mounting Dimensions/ High Temperature
Receptacle Crimp	Wall Mounting Receptacle	JT00	JTS00	JTN00	-	-	-
	Box Mounting Receptacle	JT02	JTS02	JTN02	-	-	-
	Line Receptacle	JT01	JTS01	JTN01	-	-	-
	Jam Nut Receptacle	JT07	JTS07	JTN07	JTL07	JTLN07	JTLS07
	Wall Mounting Receptacle (Back Panel)	JTPQ00	JTPS00	JTPN00			
	Box Mounting Receptacle (Back Panel)	JTP02	JTPS02	JTPN02			

CONNECTOR TYPE & STYLE

Plugs	Straight Plug	JT06	JTS06	JTN06			
	90° Plug	JT08	JTS08	JTN08			
	90° Plug with Grounding Fingers	JTG08		JTNG08			

Printed Circuit Board	Wall Mounting Receptacle (Back Panel)	88/91 56973	See page 105 for part number order guide				
	Box Mounting Receptacle (Back Panel)	88/91 56974	See page 106 for part number order guide				
	Jam Nut Receptacle	88/91 56975	See page 107 for part number order guide				
	Wall Mounting Receptacle (Hermetic)	10-62643	See page 108 for part number order guide				
	Box Mounting Receptacle (Hermetic)	10-62646	See page 109 for part number order guide				
	Jam Nut Receptacle (Hermetic)	10-62644	See page 110 for part number order guide				
	Solder Mount Receptacle (Hermetic)	10-62645	See page 111 for part number order guide				

Hermetic	Wall Mounting Receptacle	JT00	JTS00	JTN00			
	Box Mounting Receptacle	JT02	JTS02	JTN02			
	Jam Nut Receptacle	JT07	JTS07	JTN07	JTL07	JTLN07	JTLS07
	Solder Mounting Receptacle	JTI	JTSI	JTNI			

Wall Mounting Receptacle



Box Mounting Receptacle



Straight Plug



Jam Nut Receptacle



90° Plug



Solder Mounting Receptacle



Series II

B

MIL-DTL-38999/ 27599, Series II JT

How to Order (Commercial)

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2. SELECT A SERVICE CLASS

1.	2.	3.	4.	5.	6.
Type & Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Strain Relief/Finish Variation Suffix
JT00	RT	9-35	P	B	SR (014)

2. SERVICE CLASS

CRIMP			SOLDER			
WALL MOUNT	BOX MOUNT	JAMNUT (JTL)	WALL MOUNT	STRAIGHT PLUG	STRAIGHT PLUG GR	90° PLUG GR
WALL MOUNT BPM	BOX MOUNT BACKPANEL	90° PLUG	BOX MOUNT			
LINE			JAM NUT			
STRAIGHT PLUG						
STRAIGHT PLUG GF						
JAM NUT						
RE	RE					
RP		RP	P	P		P
RT		RT				
			A	A	A	
			C			
						Environmental crimp applications. Box Mount versions using spacer grommets are not environmental.
						Potting crimp applications. Supplied with spacer grommet and potting boot.
						Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells.
						General applications- applicable with strain relief.
						Pressurized applications- applicable with strain relief.

2. HERMETIC SERVICE CLASS

WALL MOUNT	
BOX MOUNT	
JAM NUT	
SOLDER MOUNT	
Y	Hermetically interfacial seal
H	Hermetic applications- Fused compression glass sealed inserts. Leakage rate less than .01 micron cu. ft./hr. (1 x 10-7 cc/sec.) at 15 psi differential.

3. SELECT A SHELL SIZE & INSERT ARRANGEMENT SEE PAGE 2-5

First number represents Shell Size, second number is the Insert Arrangement.

1.	2.	3.	4.	5.	6.
Type & Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
		22-2	P		

4. SELECT A CONTACT TYPE

	Designates
P	Pin Contacts
S	Socket Contacts

Series II

B

MIL-DTL-38999/ 27599, Series II JT

How to Order (Commercial)

1.	2.	3.	4.	5.	6.
Connector Type	Service Class	Shell Size Insert Arrg.	Contact Type	Alternate Position	Special Variations
				A	

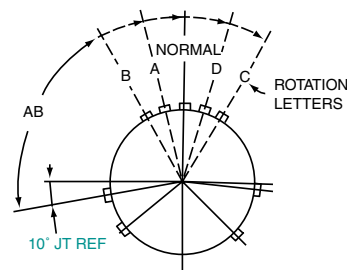
5. SELECT AN ALTERNATE KEYING POSITION

“A” designates Alternate keying connector assembly. Other basic alternate keys are “B”, “C” and “D”. No letter required for normal rotation (no rotation) position.

A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The AB angle for a given connector is the same whether it contains pins or sockets. Only the master key/keyway rotates in the shell, and the minor keys are fixed.

AB angles shown are viewed from the front face of the connector, a receptacle is shown below. The angles for the plug are exactly the same except the direction of rotation is opposite of that shown for the receptacle.

The “N” designation is not referenced in part number, it is omitted.



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

JT Key/Keyway Rotation

AB ANGLE OF ROTATION (Degrees)					
Shell Size	Normal	A	B	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°

1.	2.	3.	4.	5.	6.
Connector Type	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations ()

6. SELECT A STRAIN RELIEF OPTION OR FINISH VARIATION SUFFIX

Strain Relief Options: “SR” designates a strain relief clamp. Strain reliefs are available only on Service Class “A”, “C” and “RE” (see step 2. Service Class) Finish Variation Suffix: See finish variations available in table to your right.

Finish	Military Finish Data	Finish Suffix	Finish Plus “SR” Suffix
Cadmium plated nickel base 175°C	A		(SR)
Olive drab cadmium plate nickel base 175°C	B	(014)	(386)
Electroless nickel 200°C	F	(023)	(424)
Electroless nickel, space compatible 200°C		(453)	(467)
Anodic coating (Alumilite) 200°C	C	(005)	(300)
Chromate treated (Iridite 14-2) 125°C		(011)	(344)
Passivated steel 200°C	E	-	-
Nickel-PTFE 175°C		(045)	(582)
Zinc-Nickel Plated 175°C		(033)	

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Series II

B

Wall Mounting Receptacle - Crimp

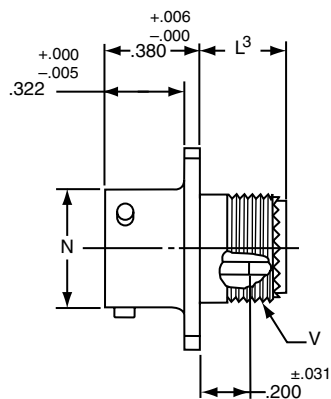
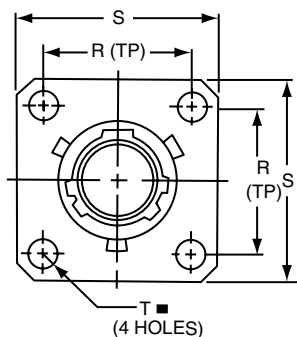
Military (MS27472 & MS27479), Commercial (JT00, JTS00 & JTN00) (SR)

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PART NUMBER BUILDER Page 85-89

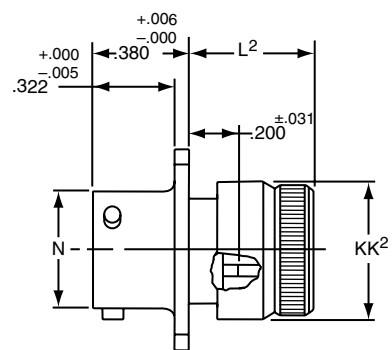
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MS27472E
MS27472P
MS27472T
MS27479E
MS27479T

Commercial
JT00RT, JT00RE, JT00RP
JTS00RT, JTS00RE, JTS00RP
JTN00RT, JTN00RE, JTN00RP



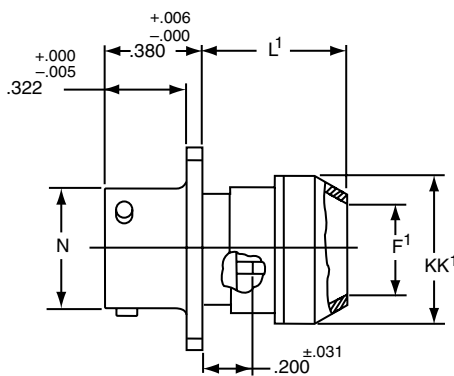
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** JTS00RT-XX-XXX
*** JTN00RT-XX-XXX

Military
MS27472T
MS27479T



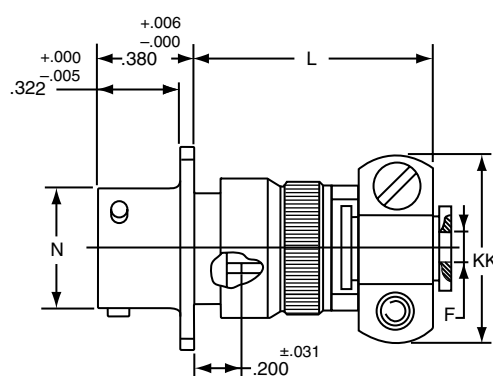
Commercial
* JT00RE-XX-XXX
** JTS00RE-XX-XXX
*** JTN00RE-XX-XXX

Military
MS27472E
MS27479E

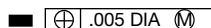


Commercial
* JT00RP-XX-XXX
** JTS00RP-XX-XXX
*** JTN00RP-XX-XXX

Military
MS27472P



Commercial
* JT00RE-XX-XXX (SR)
** JTS00RE-XX-XXX (SR)
*** JTN00RE-XX-XXX (SR)



- * Standard Junior Tri-Lock
- ** High temperature version
- *** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	F Dia. +.010 -0.025	F¹ Dia. ±.010	L Max.	L¹ Max.	L² Max.	L³ Max.	N +.001 -0.005	R (TP)	S ±.016	T ±.005	V Thread UNEF Class 2A (Plated)	KK Max.	KK¹ Dia. Max.	KK² Dia. Max.
8	.125	.444	1.094	.609	.547	.500	.473	.594	.812	.120	.4375-28	.812	.625	.578
10	.188	.558	1.094	.609	.547	.500	.590	.719	.938	.120	.5625-24	.875	.750	.703
12	.312	.683	1.094	.609	.547	.500	.750	.812	1.031	.120	.6875-24	1.000	.875	.828
14	.375	.808	1.344	.609	.547	.500	.875	.906	1.125	.120	.8125-20	1.125	1.000	.953
16	.500	.909	1.344	.609	.547	.500	1.000	.969	1.219	.120	.9375-20	1.188	1.125	1.078
18	.625	1.034	1.344	.609	.547	.500	1.125	1.062	1.312	.120	1.0625-18	1.438	1.250	1.203
20	.625	1.159	1.344	.609	.547	.500	1.250	1.156	1.438	.120	1.1875-18	1.438	1.375	1.328
22	.750	1.284	1.469	.609	.547	.500	1.375	1.250	1.562	.120	1.3125-18	1.625	1.500	1.453
24	.800	1.409	1.469	.688	.547	.500	1.500	1.375	1.688	.147	1.4375-18	1.719	1.625	1.578

All dimensions for reference only.

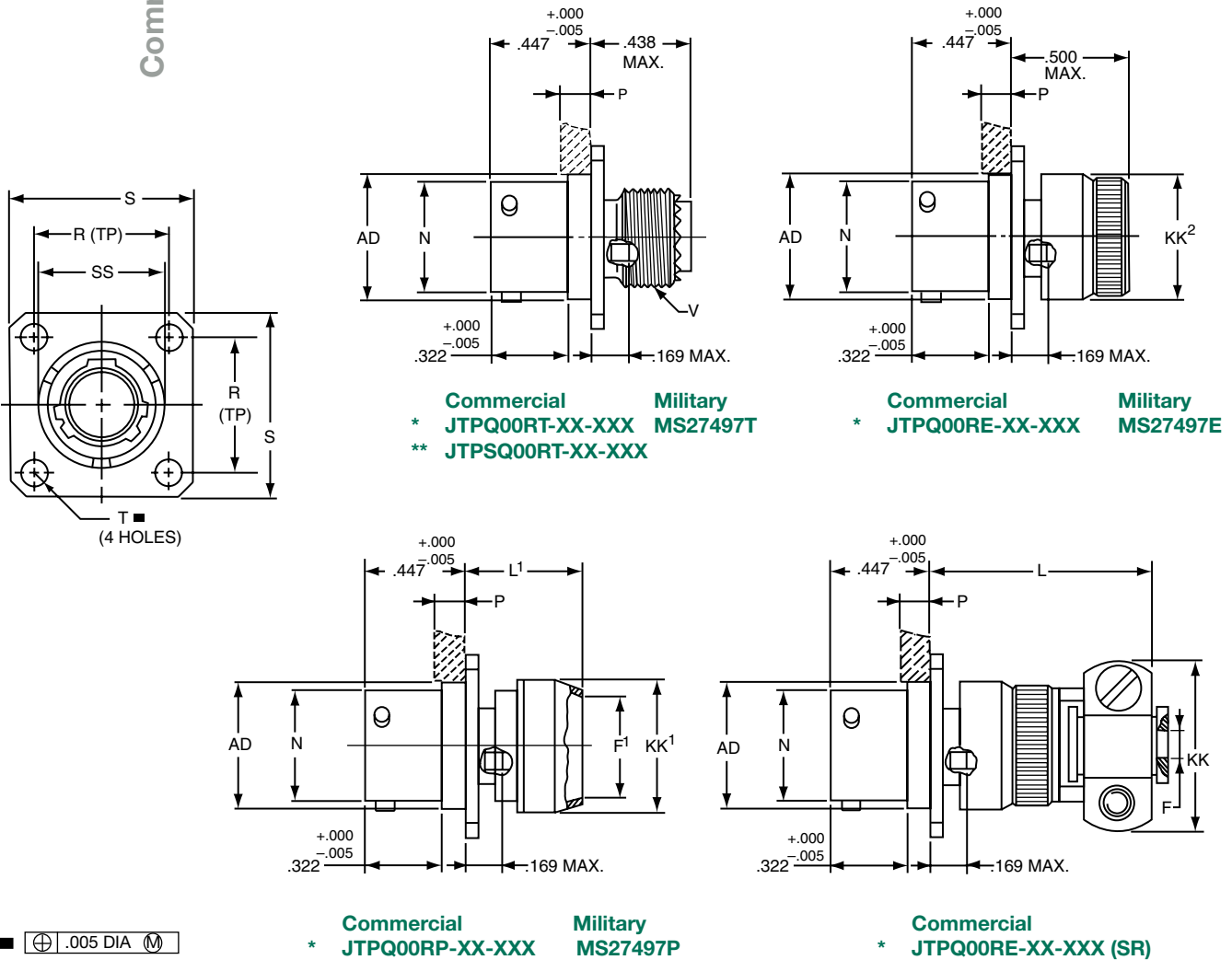
B

Wall Mounting Receptacle (Back Panel) - Crimp

Military (MS27497), Commercial (JTPQ00 & JTPSQ00)

MILITARY
MS27497E
MS27497P
MS27497T

Commercial
JTPQ00RE, JTPQ00RP, JTPQ00RT
JTPSQ00RT



* Standard Junior Tri-Lock
** High temperature version

Shell Size	F Dia. +.010 - .025	F' Dia. ±.010	L Max.	L' Max.	N +.001 - .005	P Max. Panel Thickness	R (TP)	S ±.016	T ±.005	V Thread UNEF Class 2A (Plated)	AD Dia. ±.005	KK Max.	KK' Dia. Max.	KK² Dia. Max.	SS Dia. +.000 - .016
8	.125	.444	1.140	.468	.473	.142	.594	.812	.120	.4375-28	.516	.781	.625	.578	.563
10	.188	.558	1.140	.468	.590	.142	.719	.938	.120	.5625-24	.633	.844	.750	.703	.680
12	.312	.683	1.140	.468	.750	.142	.812	1.031	.120	.6875-24	.802	.969	.875	.828	.859
14	.375	.808	1.375	.468	.875	.142	.906	1.125	.120	.8125-20	.927	1.094	1.000	.953	.984
16	.500	.909	1.375	.468	1.000	.142	.969	1.219	.120	.9375-20	1.052	1.154	1.125	1.078	1.108
18	.625	1.034	1.375	.468	1.125	.142	1.062	1.312	.120	1.0625-18	1.177	1.406	1.250	1.203	1.233
20	.625	1.159	1.375	.468	1.250	.142	1.156	1.438	.120	1.1875-18	1.302	1.406	1.375	1.328	1.358
22	.750	1.284	1.516	.468	1.375	.142	1.250	1.562	.120	1.3125-18	1.427	1.594	1.500	1.453	1.483
24	.800	1.409	1.500	.540	1.500	.142	1.375	1.688	.147	1.4375-18	1.552	1.688	1.625	1.578	1.610

Line Receptacle - Crimp

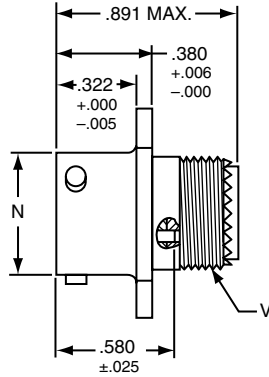
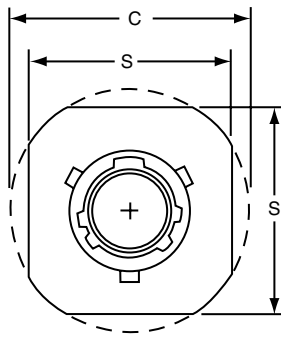
Commercial (JT01, JTS01 & JTN01)

38999

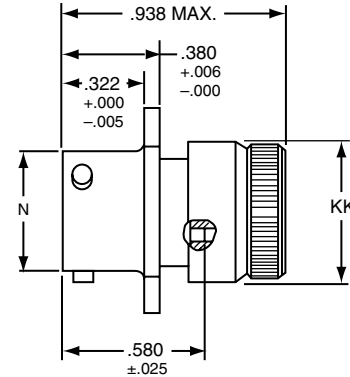
PART NUMBER BUILDER Page 85-89

Commercial

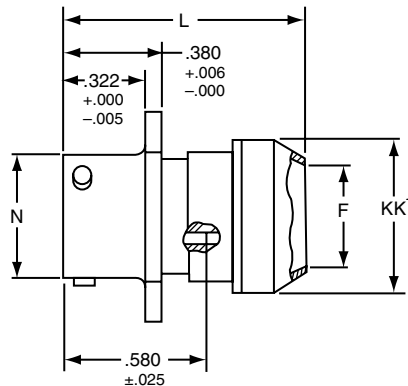
JT01RE, JT01RP, JT01RT
JTS01RE, JTS01RP, JTS01RT
JTN01RE, JTN01RP, JTN01RT



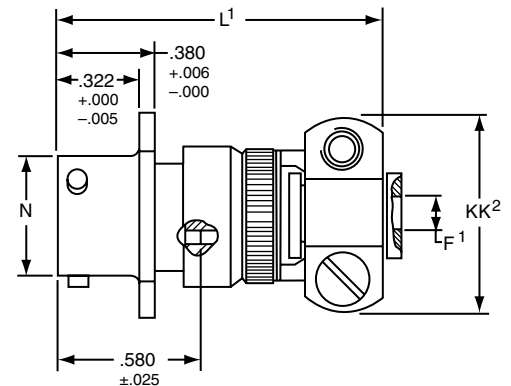
Commercial
* JT01RT-XX-XXX
** JTS01RT-XX-XXX
*** JTN01RT-XX-XXX



Commercial
* JT01RE-XX-XXX
** JTS01RE-XX-XXX
*** JTN01RE-XX-XXX



Commercial
* JT01RP-XX-XXX
** JTS01RP-XX-XXX
*** JTN01RP-XX-XXX



Commercial
* JT01RE-XX-XXX (SR)
** JTS01RE-XX-XXX (SR)
*** JTN01RE-XX-XXX (SR)

- * Standard Junior Tri-Lock
- ** High temperature version
- *** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	C Max.	F Dia. +.010	F¹ Dia. +.010 -0.025	L Max.	L¹ Max.	N Dia. +.001 -0.005	S +.017 -0.016	V Thread UNEF Class 2A (Plated)	KK Dia. Max.	KK¹ Dia. Max.	KK² Max.
8	.965	.444	.125	1.031	1.562	.473	.812	.4375-28	.578	.625	.812
10	1.089	.558	.188	1.031	1.562	.590	.938	.5625-24	.703	.750	.875
12	1.183	.683	.312	1.031	1.562	.750	1.031	.6875-24	.828	.875	1.000
14	1.277	.808	.375	1.031	1.812	.875	1.125	.8125-20	.953	1.000	1.125
16	1.371	.909	.500	1.031	1.812	1.000	1.219	.9375-20	1.078	1.125	1.188
18	1.465	1.034	.625	1.031	1.812	1.125	1.312	1.0625-18	1.203	1.250	1.438
20	1.589	1.159	.625	1.031	1.812	1.250	1.438	1.1875-18	1.328	1.375	1.438
22	1.715	1.284	.750	1.031	1.938	1.375	1.562	1.3125-18	1.453	1.500	1.625
24	1.838	1.409	.800	1.109	1.938	1.500	1.688	1.4375-18	1.578	1.625	1.719

All dimensions for reference only.

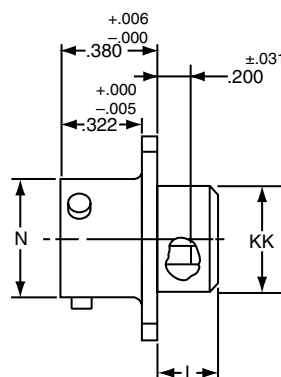
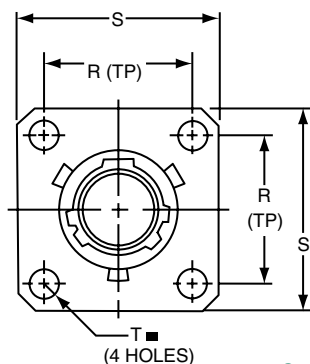
B

Box Mounting Receptacle - Crimp

Military (MS27499 & MS27513), Commercial (JT02) (053)

MILITARY
MS27499E
MS27513E

Commercial
JT02RE
JTS02RE
JTN02RE

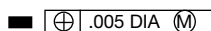
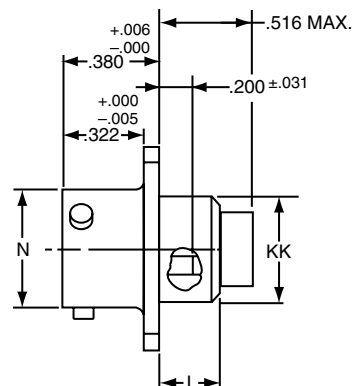


Commercial
* JT02RE-XX-XXX
** JTS02RE-XX-XXX
*** JTN02RE-XX-XXX

Military
MS27499E

Commercial- With Grommet
* JT02RE-XX-XXX (053)
** JTS02RE-XX-XXX (053)
*** JTN02RE-XX-XXX (053)

Military- With Grommet
MS27513E



- * Standard Junior Tri-Lock
- ** High temperature version
- *** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	L Max.	N +.001 -.005	R (TP)	S ±.016	T Dia. ±.005	KK Dia. Max.
8	.286	.473	.594	.812	.120	.438
10	.286	.590	.719	.938	.120	.563
12	.286	.750	.812	1.031	.120	.688
14	.286	.875	.906	1.125	.120	.813
16	.286	1.000	.969	1.219	.120	.938
18	.286	1.125	1.062	1.312	.120	1.047
20	.286	1.250	1.156	1.438	.120	1.172
22	.286	1.375	1.250	1.562	.120	1.297
24	.286	1.500	1.375	1.688	.147	1.422

All dimensions for reference only.

NOTE: For applications requiring an environmental seal, please refer to JT00R, page 91.

III

Dualok

II

I

SJT

Access

Aquacon

Series II

B

Box Mounting Receptacle (Back Panel Mounting)

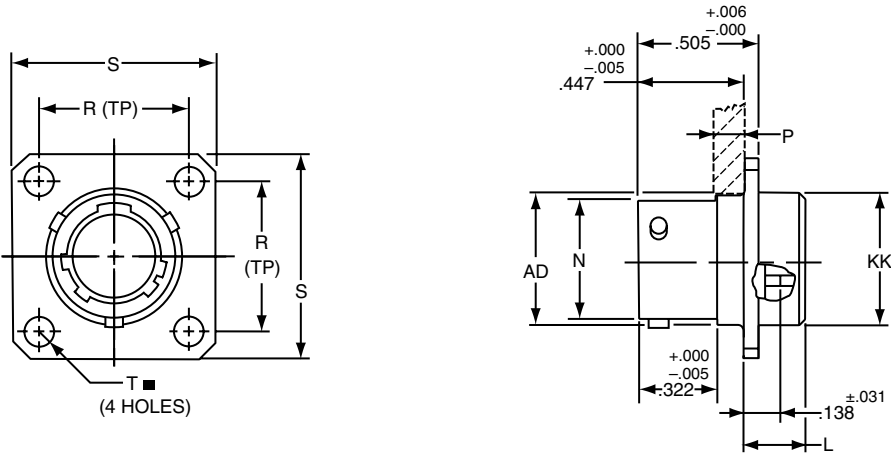
Military (MS27508), Commercial (JTP02, JTPS02 & JTPN02)

38999

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MILITARY
MS27508E

Commercial
JTP02RE
JTPS02RE
JTPN02RE



Commercial
* JTP02RE-XX-XXX
** JTPS02RE-XX-XXX
*** JTPN02RE-XX-XXX

Military
MS27508E

⊕ .005 DIA (M)

- * Standard Junior Tri-Lock
- ** High temperature version
- *** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	L Max.	N +.001 -.005	P Max. Panel Thickness	R (TP)	S ±.016	T Dia. ±.005	AD Dia. ±.005	KK Dia. Max.
8	.225	.473	.147	.594	.812	.120	.516	.531
10	.225	.590	.152	.719	.938	.120	.633	.656
12	.225	.750	.152	.812	1.031	.120	.802	.828
14	.225	.875	.152	.906	1.125	.120	.927	.953
16	.225	1.000	.152	.969	1.219	.120	1.052	1.078
18	.225	1.125	.152	1.062	1.312	.120	1.177	1.203
20	.225	1.250	.179	1.156	1.438	.120	1.302	1.328
22	.225	1.375	.179	1.250	1.562	.120	1.427	1.453
24	.225	1.500	.169	1.375	1.688	.147	1.552	1.578

Jam Nut Receptacle

Military (MS27474), Commercial (JT07, JTS07 & JTN07) (SR)

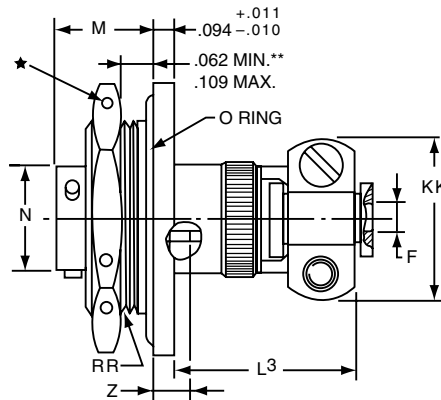
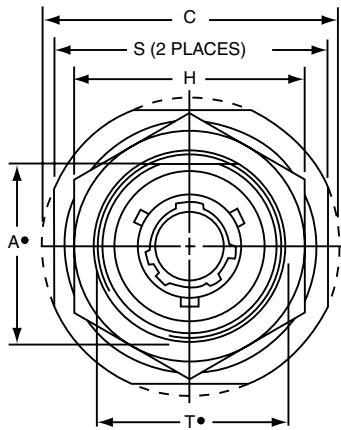
38999

PART NUMBER BUILDER Page 85-89

MILITARY
MS27474E
MS27474P
MS27474T

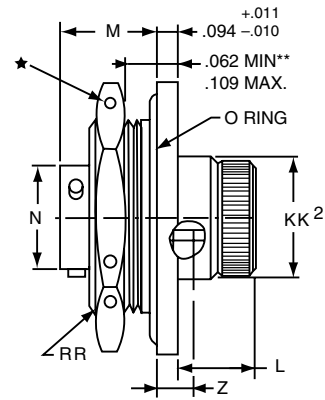
Commercial

JT07RE, JT07RP, JT07RT
JTS07RE, JTS07RP, JTS07RT
JTN07RE, JTN07RP, JTN07RT



Commercial

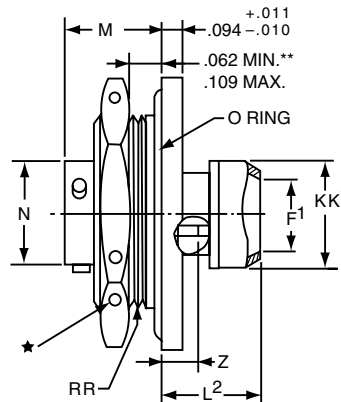
* JT07RE-XX-XXX (SR)
*** JTS07RE-XX-XXX (SR)
**** JTN07RE-XX-XXX (SR)



Commercial

Military

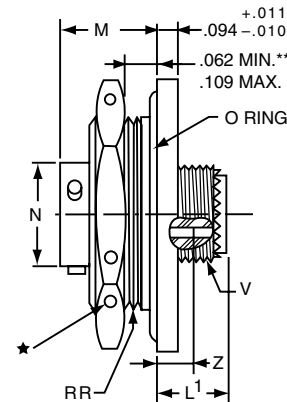
* JT07RE-XX-XXX
*** JTS07RE-XX-XXX
**** JTN07RE-XX-XXX



Commercial

Military

* JT07RP-XX-XXX
*** JTS07RP-XX-XXX
**** JTN07RP-XX-XXX



Commercial

Military

* JT07RT-XX-XXX
*** JTS07RT-XX-XXX
**** JTN07RT-XX-XXX

- ★ .059 Dia. Min. 3 lockwire holes.
- Formed lockwire hole design (6 holes) is optional.
- + "D" shaped mounting hole dimensions.
- * Standard Junior Tri-Lock
- ** Panel Thickness
- *** High temperature version
- **** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	A+ +.000 -.010	C Max.	F Dia. +.010 -.025	F ¹ Dia. +.017 -.016	H Hex +.017 -.016	L Max.	L ¹ Max.	L ² Max.	L ³ Max.	M ±.005	N Dia. +.001 -.005	S ±.016	T+ +.010 -.000	V Thread UNEF Class 2A	Z ±.031	KK Max.	KK ¹ Dia. Max.	KK ² Max.	RR Thread (Plated) Class 2A
8	.830	1.390	.125	.444	1.062	.484	.453	.563	1.047	.438	.473	1.250	.884	.4375-28	.144	.812	.625	.578	.8750-20UNEF
10	.955	1.515	.188	.558	1.188	.484	.453	.563	1.047	.438	.590	1.375	1.007	.5625-24	.144	.875	.750	.703	1.0000-20UNEF
12	1.084	1.640	.312	.683	1.312	.484	.453	.563	1.047	.438	.750	1.500	1.134	.6875-24	.144	1.000	.875	.828	1.1250-18UNEF
14	1.208	1.765	.375	.808	1.438	.484	.453	.563	1.297	.438	.875	1.625	1.259	.8125-20	.144	1.125	1.000	.953	1.2500-18UNEF
16	1.333	1.953	.500	.909	1.562	.484	.453	.563	1.297	.438	1.000	1.781	1.384	.9375-20	.144	1.188	1.125	1.078	1.3750-18UNEF
18	1.459	2.031	.625	1.034	1.688	.484	.453	.563	1.297	.438	1.125	1.890	1.507	1.0625-18	.144	1.438	1.250	1.203	1.5000-18UNEF
20	1.576	2.156	.625	1.159	1.812	.453	.422	.531	1.266	.464	1.250	2.016	1.634	1.1875-18	.188	1.438	1.375	1.328	1.6250-18UNEF
22	1.701	2.280	.750	1.284	2.000	.453	.422	.531	1.391	.464	1.375	2.140	1.759	1.3125-18	.188	1.625	1.500	1.453	1.7500-18UNS
24	1.826	2.405	.800	1.409	2.125	.375	.422	.609	1.391	.464	1.500	2.265	1.884	1.4375-18	.188	1.719	1.625	1.578	1.8750-16UN

All dimensions for reference only.

Jam Nut Receptacle - Crimp

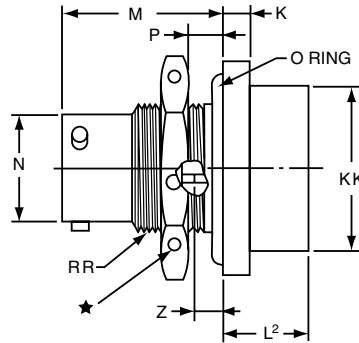
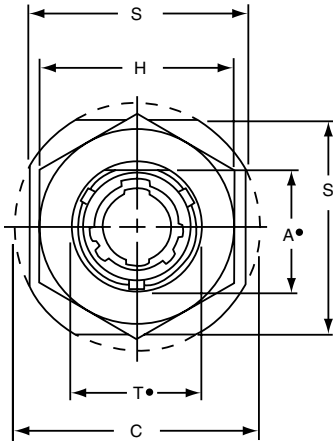
Commercial (JTL07, JTLS07 & JTLN07) (SR)

38999

PART NUMBER BUILDER Page 85-89

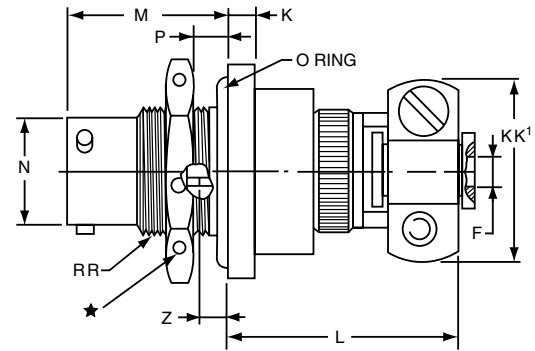
Commercial

JTL07RE, JTL07RP
JTLS07RE, JT0S7RP
JTLN07RE



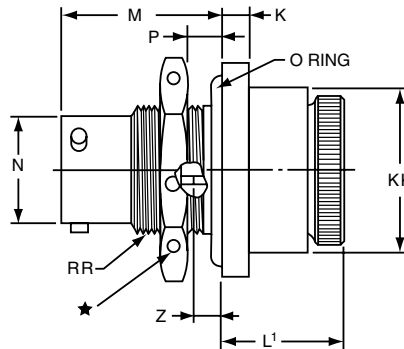
Commercial

* JTL07RP-XX-XXX
*** JTLS07RP-XX-XXX
**** JTLN07RP-XX-XXX



Commercial

* JTL07RE-XX-XXX (SR)
*** JTLS07RE-XX-XXX (SR)
**** JTLN07RE-XX-XXX (SR)



Commercial

* JTL07RE-XX-XXX
*** JTLS07RE-XX-XXX
**** JTLN07RE-XX-XXX

- ★ .059 Dia. Min. 3 lockwire holes.
Formed lockwire hole design
(6 holes) is optional.
- + "D" shaped mounting hole dimensions.
- * Miniature mounting dimensions
- *** High temperature version
- **** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	A+ +.000 -.010	C Max.	F Dia. +.010 -.025	H Hex +.017 -.016	K +.011 -.010	L Max.	L¹ Max.	L² Max.	M ±.005	N Dia. +.001 -.005	P Panel Thickness		S ±.016	T+ +.010 -.000	Z ±.026	KK Dia. Max.	KK¹ Max.	RR Thread Class 2A
											Min.	Max.						
8	.542	1.077	.125	.750	.125	1.062	.641	.375	.630	.473	.062	.125	.938	.572	.047	.688	.812	.5625-24UNEF
10	.669	1.203	.188	.875	.125	1.062	.641	.375	.630	.590	.062	.125	1.062	.697	.047	.812	.875	.6875-24UNEF
12	.830	1.390	.312	1.062	.125	1.062	.641	.375	.630	.750	.062	.125	1.250	.844	.047	.938	1.000	.8750-20UNEF
14	.955	1.515	.375	1.188	.125	1.062	.641	.375	.630	.875	.062	.125	1.375	1.007	.047	1.062	1.125	1.0000-20UNEF
16	1.084	1.640	.500	1.312	.125	1.062	.641	.375	.630	1.000	.062	.125	1.500	1.134	.047	1.188	1.188	1.1250-18UNEF
18	1.208	1.765	.625	1.438	.125	1.062	.641	.375	.630	1.125	.062	.125	1.625	1.259	.047	1.312	1.438	1.2500-18UNEF
20	1.333	1.953	.625	1.562	.156	1.062	.703	.328	.755	1.250	.062	.250	1.812	1.384	.172	1.469	1.438	1.3750-18UNEF
22	1.459	2.075	.750	1.688	.156	1.062	.703	.328	.755	1.375	.062	.250	1.938	1.507	.172	1.594	1.625	1.5000-18UNEF
24	1.575	2.203	.800	1.812	.156	1.062	.703	.328	.755	1.500	.062	.250	2.062	1.634	.172	1.719	1.719	1.6250-18UNEF

All dimensions for reference only.

Straight Plug

Military (MS27473), Commercial (JT06, JTS06 & JTN06) (SR)

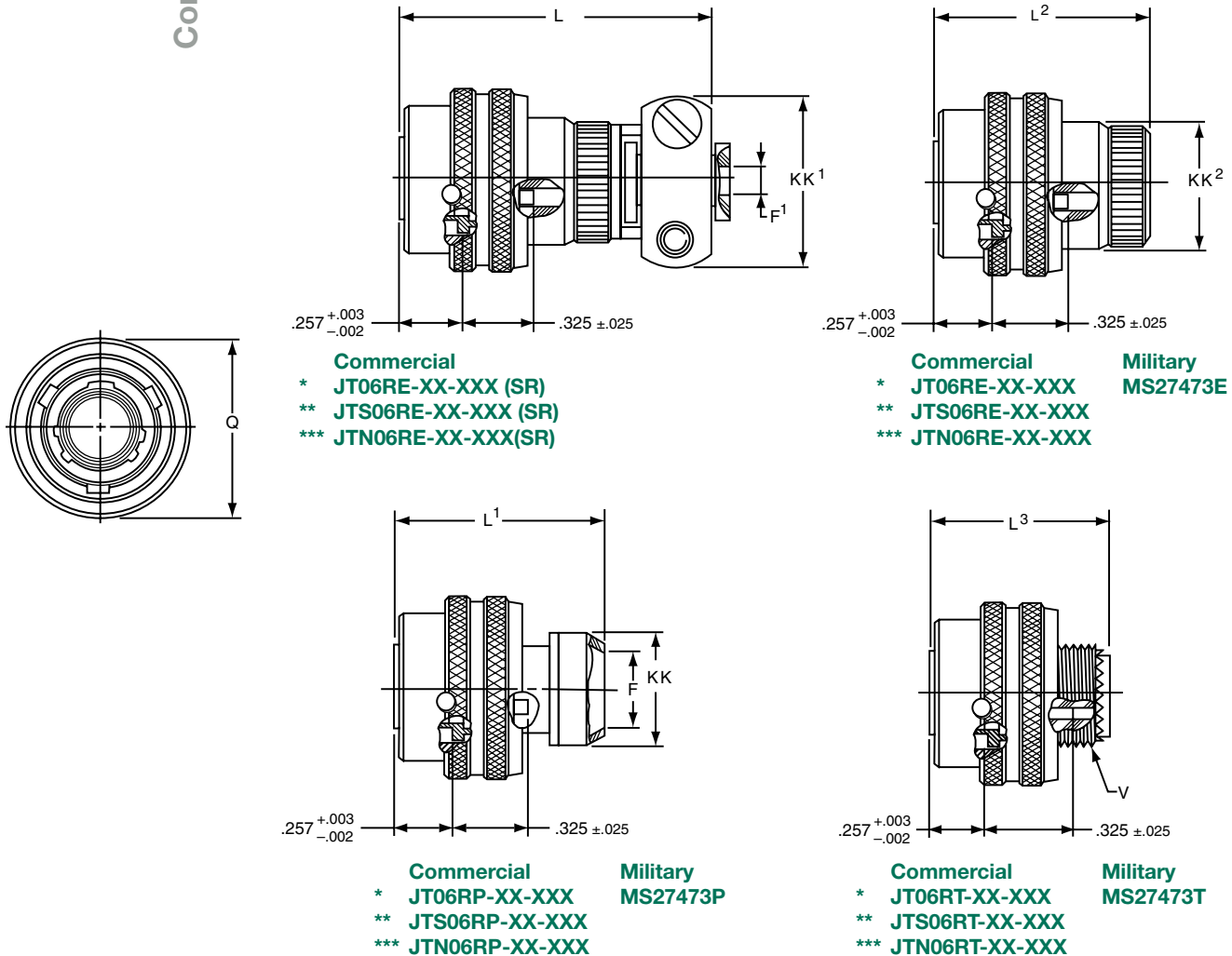
38999

PART NUMBER BUILDER Page 85-89

MILITARY
MS27473E
MS27473P
MS27473T

Commercial

JT06RE, JT06RP, JT06RT
JTS06RE, JTS06RP, JTS06RT
JTN06RE, JTN06RP, JTN06RT



* Standard Junior Tri-Lock

** High temperature version

*** Clear iridite finish (gold color), N₂O₄ resistant

Shell Size	F Dia.	F ¹ Dia. +.001 -.025	L Max.	L ¹ Max.	L ² Max.	L ³ Max.	Q Dia. Max.	V Thread Modified		KK Dia. Max.	KK ¹ Max.	KK ² Dia. Max.
								Class 2A UNEF	Modified Major Dia.			
8	.444	.125	1.562	1.000	.938	.891	.734	.4375-28	.421 - .417	.625	.812	.578
10	.558	.188	1.562	1.000	.938	.891	.844	.5625-24	.542 - .538	.750	.875	.703
12	.683	.312	1.562	1.000	.938	.891	1.016	.6875-24	.667 - .663	.875	1.000	.828
14	.808	.375	1.812	1.000	.938	.891	1.141	.8125-20	.791 - .787	1.000	1.125	.953
16	.909	.500	1.812	1.000	.938	.891	1.265	.9375-20	.916 - .912	1.125	1.188	1.078
18	1.034	.625	1.812	1.000	.938	.891	1.391	1.0625-18	1.034 - 1.030	1.250	1.438	1.203
20	1.159	.625	1.812	1.000	.938	.891	1.500	1.1875-18	1.158 - 1.154	1.375	1.438	1.328
22	1.284	.750	1.938	1.000	.938	.891	1.625	1.3125-18	1.283 - 1.279	1.500	1.625	1.453
24	1.409	.800	1.938	1.062	.938	.891	1.750	1.4375-18	1.408 - 1.404	1.625	1.719	1.578

All dimensions for reference only.

Straight Plug (With Grounding Fingers) - Crimp

Military (MS27484), Commercial (JTG06 & JTNG06)

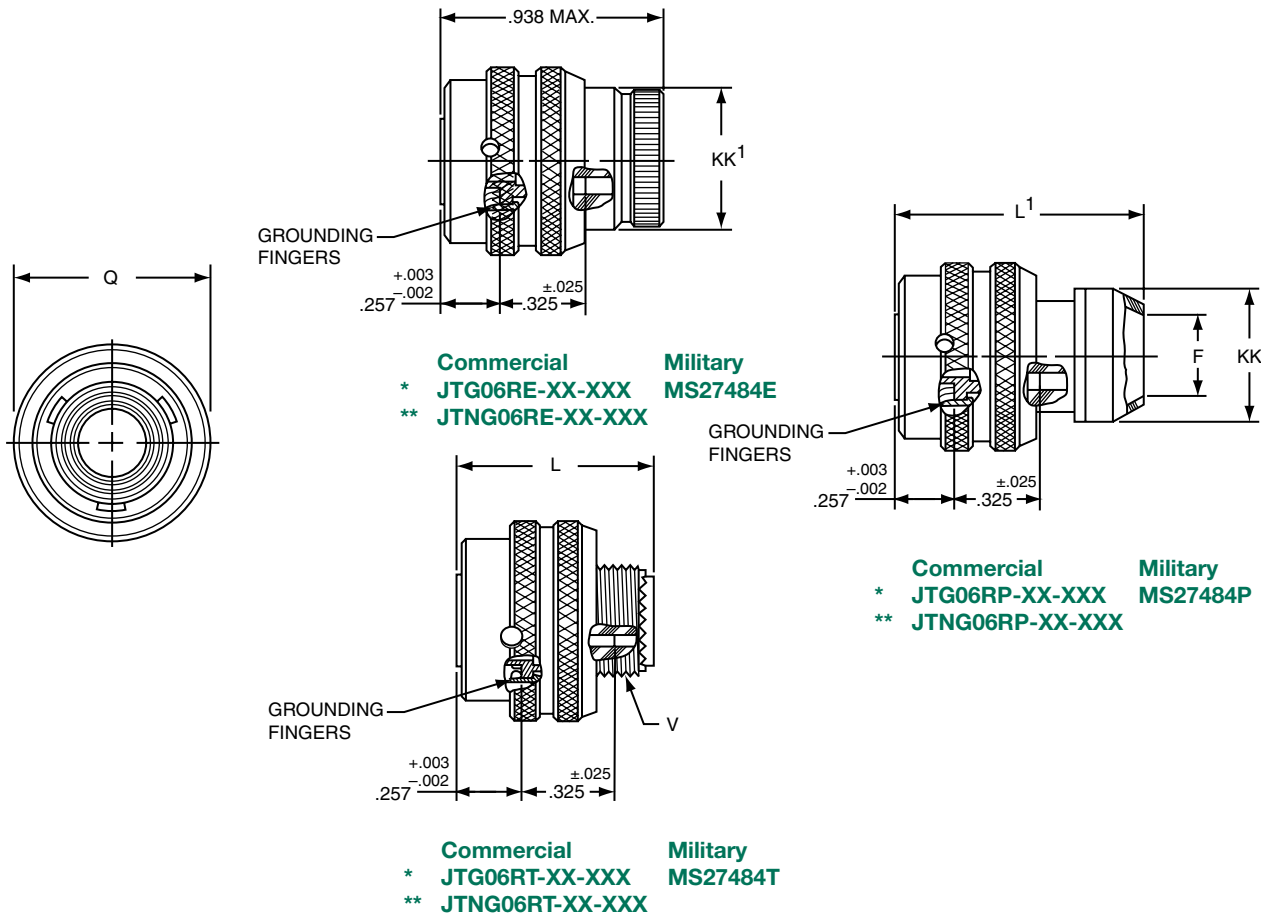
38999

PART NUMBER BUILDER Page 85-89

MILITARY
MS27484E
MS27484P
MS27484T

Commercial

JTG06RE, JTG06RP, JTG02RT
JTNG06RE, JTNG06RP, JTNG06RT



* Plug with grounding fingers
** Clear iridite finish (gold color), N2O4 resistant

Shell Size	F Dia.	L Max.	L ¹ Max.	Q Dia Max.	V Thread Modified		KK Dia. Max.	KK ¹ Dia. Max.
					Class 2A UNEF	Modified Major Dia.		
8	.444	.891	1.000	.734	.4375-28	.421 - .417	.625	.578
10	.558	.891	1.000	.844	.5625-24	.542 - .538	.750	.703
12	.683	.891	1.000	1.016	.6875-24	.667 - .663	.875	.828
14	.808	.891	1.000	1.141	.8125-20	.791 - .787	1.000	.953
16	.909	.891	1.000	1.265	.9375-20	.916 - .912	1.125	1.078
18	1.034	.891	1.000	1.391	1.0625-18	1.034 - 1.030	1.250	1.203
20	1.159	.891	1.000	1.500	1.1875-18	1.158 - 1.154	1.375	1.328
22	1.284	.891	1.000	1.625	1.3125-18	1.283 - 1.279	1.500	1.453
24	1.409	.891	1.062	1.750	1.4375-18	1.408 - 1.404	1.625	1.578

All dimensions for reference only.

90° Plug - Crimp

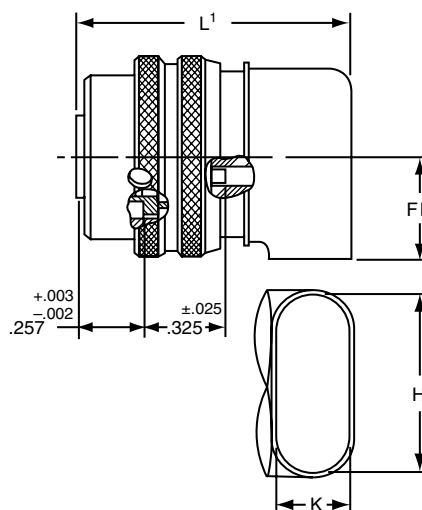
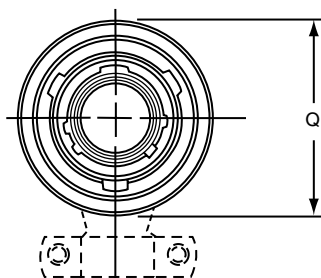
Military (MS27500), Commercial (JT08R, JTS08 & JTN08)

MILITARY
MS27500E

Commercial
JT08RE, JT08RP
JTS08RE, JTS08RP
JTN08RE, JTN08RP

Commercial

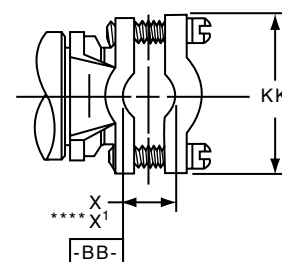
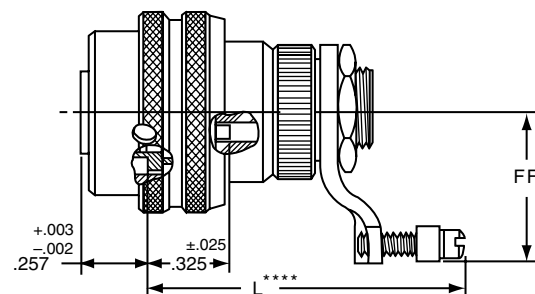
- * JT08RP-XX-XXX
- ** JTS08RP-XX-XXX
- *** JTN08RP-XX-XXX



Commercial

- * JT08RE-XX-XXX
- ** JTS08RE-XX-XXX
- *** JTN08RE-XX-XXX

Military
MS27500E



- * Standard Junior Tri-Lock
- ** High temperature version
- *** Clear iridite finish (gold color), N₂O₄ resistant
- **** Dimensions L and X1 are applicable when the end of the screw is flush with the surface BB.

Shell Size	H ±.010	K ±.010	L Max.	L1 Max.	Q Dia. Max.	X Min. Cable	X1 Max. Cable	FF Max.	FF1 Max.	KK Max.
8	.547	.156	1.578	1.125	.734	.082	.234	.438	.984	.755
10	.709	.188	1.578	1.156	.844	.082	.234	.516	1.016	.755
12	.829	.281	1.656	1.250	1.016	.114	.328	.594	1.078	.817
14	1.000	.438	1.844	1.406	1.141	.176	.457	.656	1.203	.943
16	1.021	.500	2.000	1.469	1.265	.238	.634	.719	1.265	1.067
18	1.145	.562	2.046	1.531	1.391	.208	.614	.781	1.328	1.149
20	1.270	.625	2.125	1.594	1.500	.302	.608	.844	1.359	1.399
22	1.395	.688	2.250	1.656	1.625	.302	.823	.906	1.421	1.399
24	1.520	.750	2.422	1.797	1.750	.332	.853	.969	1.703	1.587

All dimensions for reference only.

Wall Mounting Receptacle -Hermetic

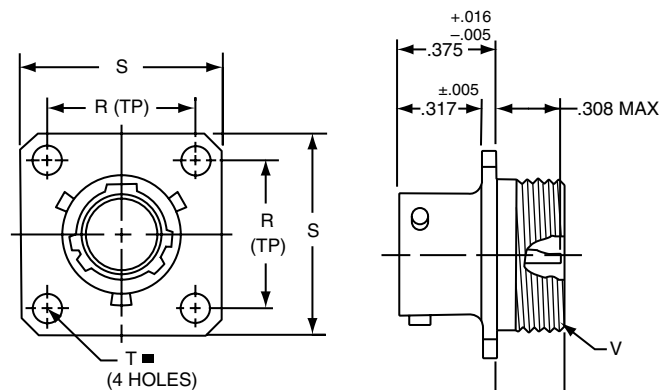
Military (MS27475 & MS27482), Commercial (JT00 & JTS00)

38999

PART NUMBER BUILDER Page 85-89

MILITARY
MS27475Y
MS27482Y

Commercial
JT00H, JT00Y
JTS00Y



Commercial

* JT00H-XX-XXX
** JT00Y-XX-XXX
*** JTS00Y-XX-XXX

Military

MS27475YXXDXXX
MS27482YXXEXXX

Shell Size	L Max.	N +.001 -.005	R (TP)	S ±.016	T ±.005	V Thread Class 2A
8	.234	.473	.594	.812	.120	.5625-24UNEF
10	.234	.590	.719	.938	.120	.6875-24UNEF
12	.234	.750	.812	1.031	.120	.8125-20UNEF
14	.234	.875	.906	1.125	.120	.9375-20UNEF
16	.234	1.000	.969	1.219	.120	1.0625-18UNEF
18	.234	1.125	1.062	1.312	.120	1.1875-18UNEF
20	.234	1.250	1.156	1.438	.120	1.3125-18UNEF
22	.234	1.375	1.250	1.562	.120	1.4375-18UNEF
24	.313	1.500	1.375	1.688	.147	1.5625-18UNEF

- * Standard Junior Tri-Lock
** Interfacial seal wafer
*** High temperature version, interfacial seal wafer with stainless steel shell

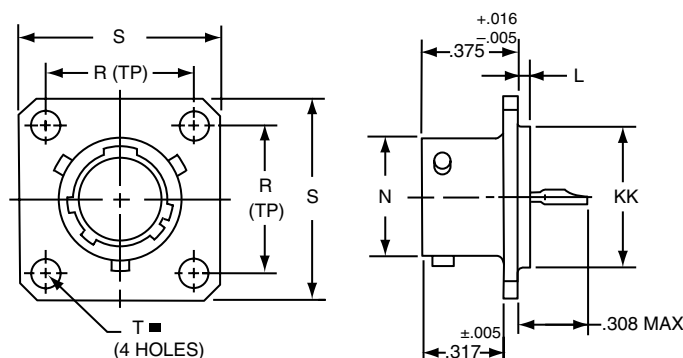
Box Mounting Receptacle - Hermetic

Military (MS27476), Commercial (JT02 & JTS02)

PART NUMBER BUILDER Page 85-89

MILITARY
MS27476Y

Commercial
JT02H, JT02Y
JTS02Y



Commercial

* JT02H-XX-XXX
** JT02Y-XX-XXX
*** JTS02Y-XX-XXX

Military

MS27476YXXDXXX
MS27476YXXEXXX

Shell Size	L +.006 -.015	N +.001 -.005	R (TP)	S ±.016	T ±.005	KK +.001 -.005
8	.051	.473	.594	.812	.120	.562
10	.051	.590	.719	.938	.120	.672
12	.051	.750	.812	1.031	.120	.781
14	.051	.875	.906	1.125	.120	.906
16	.051	1.000	.969	1.219	.120	1.031
18	.051	1.125	1.062	1.312	.120	1.156
20	.051	1.250	1.156	1.438	.120	1.250
22	.080	1.375	1.250	1.562	.120	1.375
24	.080	1.500	1.375	1.688	.147	1.500

- * Standard Junior Tri-Lock
** Interfacial seal wafer
*** High temperature version, interfacial seal wafer with stainless steel shell

All dimensions for reference only.

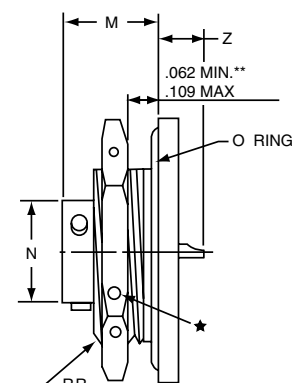
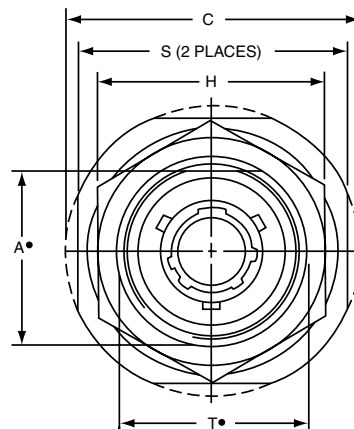
Jam Nut Receptacle - Hermetic

Military (MS27477 & MS27483), Commercial (JT07 & JTS07)

PART NUMBER BUILDER Page 85-89

MILITARY
MS27477Y
MS27483Y

Commercial
JT07H, JT07Y
JTS07Y



- * Standard Junior Tri-Lock
- ★ .059 Dia. Min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional.
- + "D" shaped mounting hole dimensions.
- ** Panel Thickness
- *** Interfacial seal wafer
- **** High temperature version, interfacial seal wafer with stainless steel shell

Commercial

* JT07H-XX-XXX
*** JT07Y-XX-XX
**** JTS07Y-XX-XXX

Military

MS27477YXXDXXX
MS27483YXXEXXX

Shell Size	A+ +.000 -.010	C Max.	H +.017 -.016	M ±.005	N +.001 -.005	S ±.016	T+ +.010 -.000	Z Max.	RR Thread Class 2A
8	.830	1.390	1.062	.438	.473	1.250	.884	.244	.8750-20UNEF
10	.955	1.515	1.188	.438	.590	1.375	1.007	.244	1.0000-20UNEF
12	1.084	1.640	1.312	.438	.750	1.500	1.134	.244	1.1250-18UNEF
14	1.208	1.765	1.438	.438	.875	1.625	1.259	.244	1.2500-18UNEF
16	1.333	1.953	1.562	.438	1.000	1.781	1.384	.244	1.3750-18UNEF
18	1.459	2.031	1.688	.438	1.125	1.890	1.507	.244	1.5000-18UNEF
20	1.576	2.156	1.812	.464	1.250	2.016	1.634	.218	1.6250-18UNEF
22	1.701	2.280	2.000	.464	1.375	2.140	1.759	.218	1.7500-18UNS
24	1.826	2.405	2.125	.464	1.500	2.265	1.884	.218	1.8750-16UN

Solder Mounting Receptacle - Hermetic

Military (MS27478 & MS27503), Commercial (JTI & JTSI)

PART NUMBER BUILDER Page 85-89

MILITARY
MS27478Y
MS27503Y

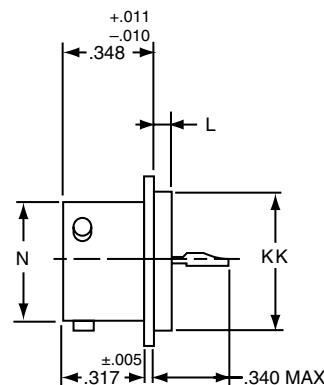
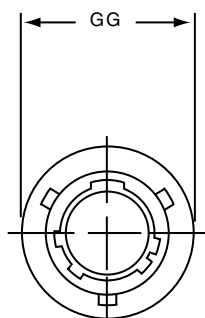
Commercial
JTIH, JTIY
JTSIY

Commercial

* JTIH-XX-XXX
** JTIY-XX-XX
*** JTSIY-XX-XXX

Military

MS27478YXXDXXX
MS27503YXXEXXX



Shell Size	L +.011 -.010	N +.001 -.005	GG +.011 -.010	KK +.001 -.005
8	.078	.473	.687	.562
10	.078	.590	.797	.672
12	.078	.750	.906	.781
14	.078	.875	1.031	.906
16	.078	1.000	1.156	1.031
18	.078	1.125	1.281	1.156
20	.078	1.250	1.375	1.250
22	.107	1.375	1.500	1.375
24	.107	1.500	1.625	1.500

- * Standard Junior Tri-Lock
- ** Interfacial seal wafer
- *** High temperature version, interfacial seal wafer with stainless steel shell

All dimensions for reference only. Weld mounting hermetic receptacle also available. Consult Amphenol Aerospace for availability and dimensions.

38999

III

Dualok

II

I

SJT

Access

Aquacon

Series II

B

Wall Mounting Receptacle - Solder

Military (MS27334), Commercial (JT00 & JTN00)

38999

PART NUMBER BUILDER Page 85-89

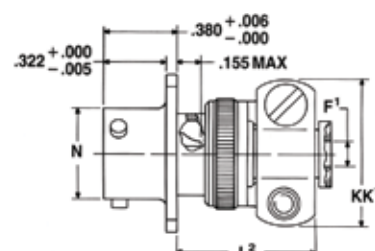
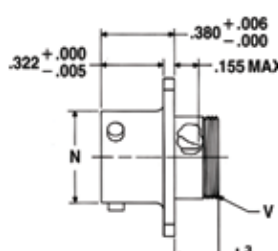
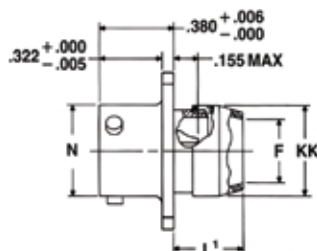
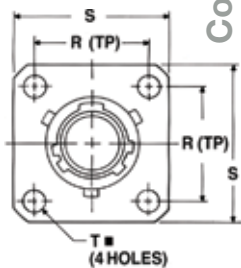
Military qualified to MIL-DTL-27599

MILITARY
MS27334P
MS27334T

Commercial
JT00A, JT00C, JT00P
JTN00A, JTN00C, JTN00P

* Standard Junior Tri-Lock

NOTE: For availability of back panel mounting types, consult Amphenol Aerospace.



Commercial
***JT00P-XX-XXX**
***JTN00P-XX-XXX**

Military
MS27334P

Commercial
***JT00A-XX-XXX**
***JT00C-XX-XXX**
***JTN00A-XX-XXX**
***JTN00C-XX-XXX**

Military
MS27334T

Commercial
***JT00A-XX-XXX(SR)**
***JTN00A-XX-XXX(SR)**
***JTN00C-XX-XXX(SR)**

⊕ .005 DIA ⊗

Shell Size	F Dia. Min.	F' +.010 - .025	L' Max.	LMax.	L3 Max.	N +.001 - .005	R (TP)	S ±.016	T ±.005	V Thread Modified		KK Dia. Max.	KK' Max.
										Size Class 2A	Modified Major Dia.		
8	.312	.125	.422	.734	.234	.473	.594	.812	.120	.4375-28UNEF	.421 - .417	.500	.812
10	.429	.188	.422	.734	.234	.590	.719	.938	.120	.5625-24UNEF	.542 - .538	.625	.875
12	.543	.312	.422	.734	.234	.750	.812	1.031	.120	.6875-24UNEF	.667 - .663	.750	1.000
14	.668	.375	.422	.797	.234	.875	.906	1.125	.120	.8125-20UNEF	.791 - .787	.875	1.125
16	.793	.500	.422	.797	.234	1.000	.969	1.219	.120	.9375-20UNEF	.916 - .912	1.000	1.188
18	.894	.625	.422	.797	.234	1.125	1.062	1.312	.120	1.0625-18UNEF	1.034 - 1.030	1.109	1.438
20	1.019	.625	.422	.859	.234	1.250	1.156	1.438	.120	1.1875-18UNEF	1.158 - 1.154	1.234	1.438
22	1.144	.750	.422	.859	.234	1.375	1.250	1.562	.120	1.3125-18UNEF	1.283 - 1.279	1.359	1.625
24	1.269	.800	.422	.922	.313	1.500	1.375	1.688	.147	1.4375-18UNEF	1.408 - 1.404	1.484	1.719

Box Mounting Receptacle - Solder

Military (MS27335), Commercial (JT02 & JTN02)

Military qualified to MIL-DTL-27599

PART NUMBER BUILDER Page 85-89

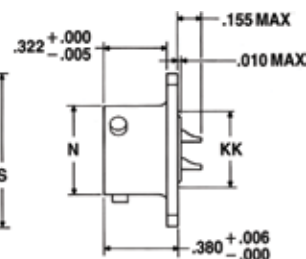
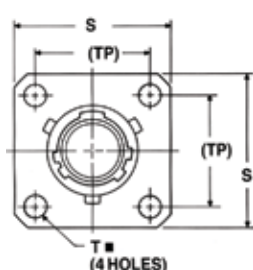
MILITARY
MS27335T

Commercial
JT02A, JT02C, JT02P
JTN02A, JTN02C, JTN02P

* Standard Junior Tri-Lock

NOTE: For availability of back panel mounting types, consult Amphenol Aerospace.

⊕ .005 DIA ⊗



Shell Size	N +.001 - .005	R (TP)	S ±.016	T ±.005	KK Max.
8	.473	.594	.812	.120	.391
10	.590	.719	.938	.120	.508
12	.750	.812	1.031	.120	.622
14	.875	.906	1.125	.120	.749
16	1.000	.969	1.219	.120	.872
18	1.125	1.062	1.312	.120	.976
20	1.250	1.156	1.438	.120	1.101
22	1.375	1.250	1.562	.120	1.226
24	1.500	1.375	1.688	.147	1.351

All dimensions for reference only.

Straight Plug - Solder

Military (MS27336), Commercial (JT06 & JTN06)

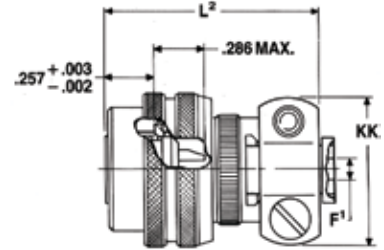
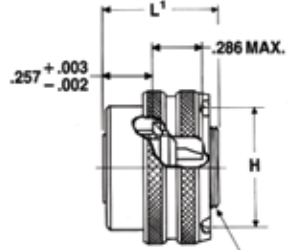
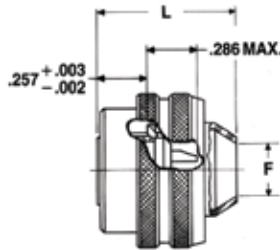
PART NUMBER BUILDER Page 85-89

Military qualified to MIL-DTL-27599

38999

MILITARY
MS27336P
MS27336T

Commercial
JT06A, JT06P
JTN06A, JTN06P



Commercial
*JT06P-XX-XXX
*JTN06P-XX-XXX

Military
MS27336P

Commercial
*JT06A-XX-XXX
*JTN06A-XX-XXX

Military
MS27336T

Commercial
*JT06A-XX-XXX(SR)
*JTN06A-XX-XXX(SR)

*Standard Junior Tri-Lock

Shell Size	F Min.	F+.010 -.025	H +.010 -.001	L Max.	LMax.	LMax.	Q Max.	V Thread Modified		
								Size Class 2A	Modified Major Dia.	KK Max.
8	.312	.125	.635	.812	.625	1.109	.734	.4375-28UNEF	.421 - .417	.812
10	.429	.188	.734	.812	.625	1.109	.844	.5625-24UNEF	.542 - .538	.875
12	.543	.312	.870	.812	.625	1.109	1.016	.6875-24UNEF	.667 - .663	1.000
14	.668	.375	.996	.812	.625	1.172	1.141	.8125-20UNEF	.791 - .787	1.125
16	.793	.500	1.122	.828	.625	1.172	1.265	.9375-20UNEF	.916 - .912	1.188
18	.894	.625	1.246	.828	.625	1.172	1.391	1.0625-18UNEF	1.034 - 1.030	1.438
20	1.019	.625	1.372	.828	.625	1.234	1.500	1.1875-18UNEF	1.158 - 1.154	1.438
22	1.144	.750	1.496	.828	.625	1.234	1.625	1.3125-18UNEF	1.283 - 1.279	1.625
24	1.269	.800	1.622	.906	.688	1.297	1.750	1.4375-18UNEF	1.408 - 1.404	1.719

Straight Plug (With Grounding Ring)

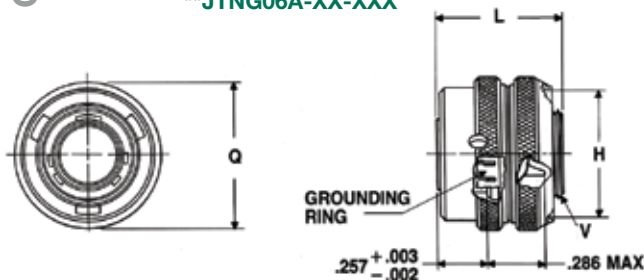
Commercial (JTG06 & JTNG06)

Military qualified to MIL-DTL-27599

PART NUMBER BUILDER Page 85-89

Commercial
JTG06A
JTNG06A

Commercial
*JTG06A-XX-XXX
**JTNG06A-XX-XXX



* Plug with grounding fingers

** Coupling nut is clear iridite finish (gold color), shell and grounding fingers are gold plated N2O4 resistant.

Shell Size	H Dia. +.010 -.001	L Max.	Q Dia. Max.	V Thread Modified	
				Size Class 2A	Modified Major Dia.
8	.635	.625	.734	.4375-28UNEF	.421 - .417
10	.734	.625	.844	.5625-24UNEF	.542 - .538
12	.870	.625	1.016	.6875-24UNEF	.667 - .663
14	.996	.625	1.141	.8125-20UNEF	.791 - .787
16	1.122	.625	1.265	.9375-20UNEF	.916 - .912
18	1.246	.625	1.391	1.0625-18UNEF	1.034 - 1.030
20	1.372	.625	1.500	1.1875-18UNEF	1.158 - 1.154
22	1.496	.625	1.625	1.3125-18UNEF	1.283 - 1.279
24	1.622	.688	1.750	1.4375-18UNEF	1.408 - 1.404

All dimensions for reference only.

Jam Mounting Receptacle - Solder

Military (MS27337), Commercial (JT07 & JTN07)

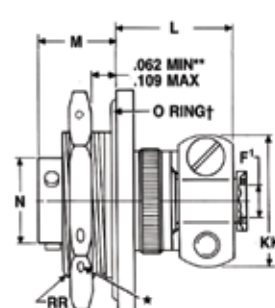
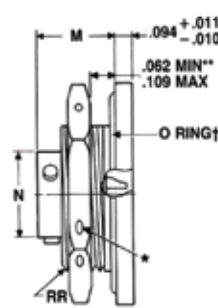
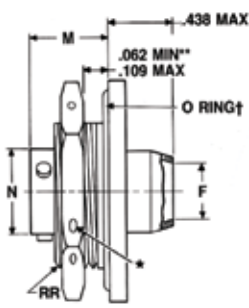
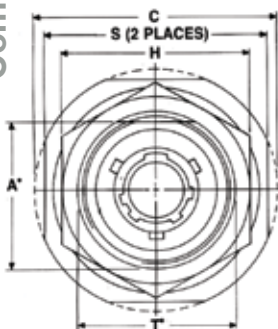
38999

PART NUMBER BUILDER Page 85-89

Military qualified to MIL-DTL-27599

MILITARY JT07A, JT07C, JT07P
MS27337P JTN07A, JTN07C, JTN07P

Commercial



H .059 dia. min. 3 lockwire holes
+ "D" shaped mounting hole dimensions.
* Standard Junior Tri-Lock
** Panel thickness
† O Ring not furnished with MS27337

Commercial
*JT07P-XX-XXX
*JTN07P-XX-XXX

Military
MS27337P

Commercial
*JT07A-XX-XXX
*JT07C-XX-XXX
*JTN07A-XX-XXX
*JTN07C-XX-XXX

Commercial
*JT07A-XX-XXX(SR)
*JTN07A-XX-XXX(SR)
*JTN07C-XX-XXX(SR)

Shell Size	A+ +.000 -.010	C Max.	F Min.	F+.010 -.025	H +.017 -.016	L Max.	M ±.005	N +.001 -.005	S ±.016	T+ +.010 -.000	KK Max.	RR Thread Class 2A
8	.830	1.390	.312	.125	1.062	.666	.438	.473	1.250	.884	.812	.8750-20UNEF
10	.955	1.515	.429	.188	1.188	.666	.438	.590	1.375	1.007	.875	1.0000-20UNEF
12	1.084	1.640	.543	.312	1.312	.666	.438	.750	1.500	1.134	1.000	1.1250-18UNEF
14	1.208	1.765	.668	.375	1.438	.729	.438	.875	1.625	1.259	1.125	1.2500-18UNEF
16	1.333	1.953	.793	.500	1.562	.729	.438	1.000	1.781	1.384	1.188	1.3750-18UNEF
18	1.459	2.031	.894	.625	1.688	.729	.438	1.125	1.890	1.507	1.438	1.5000-18UNEF
20	1.576	2.156	1.019	.625	1.812	.765	.464	1.250	2.016	1.634	1.438	1.6250-18UNEF
22	1.701	2.280	1.144	.750	2.000	.765	.464	1.375	2.140	1.759	1.625	1.7500-18UNS
24	1.826	2.405	1.269	.800	2.125	.828	.464	1.500	2.265	1.884	1.719	1.8750-16UN

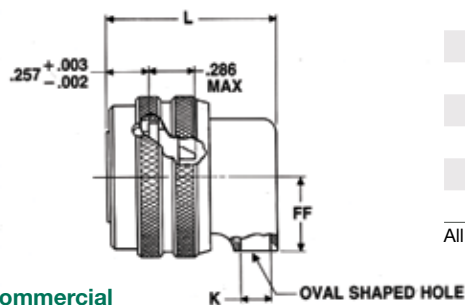
90° Plug - Solder

Commercial (JT08 & JTN08)

Military qualified to MIL-DTL-27599

PART NUMBER BUILDER Page 85-89

Commercial JT08P
JTN08P



Commercial
*JT08P-XX-XXX
*JTN08P-XX-XXX

Shell Size	H Min.	K Min.	L Max.	Q Max.	FF Max.
8	.396	.126	.891	.734	.391
10	.532	.141	.906	.844	.438
12	.694	.173	.938	1.016	.516
14	.814	.266	1.031	1.141	.594
16	.985	.423	1.188	1.265	.656
18	1.006	.485	1.250	1.391	.719
20	1.130	.547	1.312	1.500	.781
22	1.255	.610	1.375	1.625	.844
24	1.380	.673	1.516	1.750	.906

All dimensions for reference only.

PCB Wall Mounting Receptacle

Commercial (JTPQ00R)

38999

III

Dualok

II

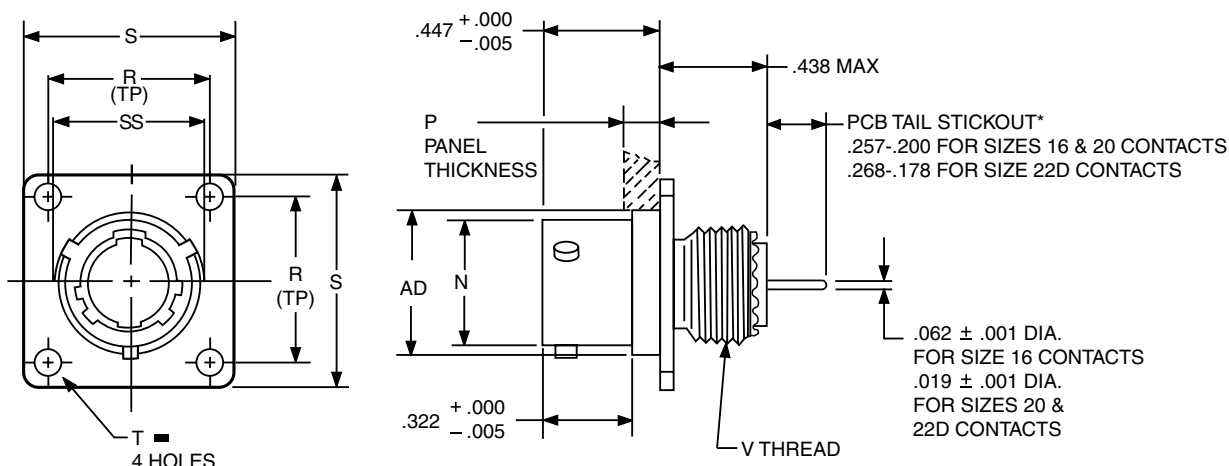
I

SJT

Access

Aquacon

Series II



	1.	2.	3.	4.	5.
PART #	Shell Finish	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/Alt. Keying
See chart below	88/91	569	731	-35	P

HOW TO ORDER

1. SELECT A SHELL FINISH:

88	Designates olive drab cadmium plated connector shell
91	Designates electroless nickel plated connector shell

Consult Amphenol Aerospace for ordering of composite styles.

2. BASE NUMBER:

569	Base Number
------------	-------------

3. SELECT A CODED SHELL SIZE:

See chart below **731-739**, designates size 9-25 shell size.

Example: **731** = Size 9 Shell

4. SELECT AN INSERT ARRANGEMENT:

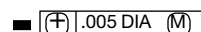
Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35	Designates Insert Arrangement Number
------------	--------------------------------------

5. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P	Designates Pin Contacts in Normal Position
S	Designates Socket Contacts in Normal Position



Shell Size	Coded Shell Size	N $\pm$.001 / -.005	P Max. Panel Thickness	R (TP)	S $\pm$.016	T Dia. $\pm$.005	V Thread Class 2A (Plated)	AD Dia. $\pm$.005	SS Dia. $\pm$.016
8	731	.473	.142	.594	.812	.120	.4375-28 UNEF	.516	.563
10	732	.590	.142	.719	.938	.120	.5625-24 UNEF	.633	.680
12	733	.750	.142	.812	1.031	.120	.6875-24 UNEF	.802	.859
14	734	.875	.142	.906	1.125	.120	.8125-20 UNEF	.927	.984
16	735	1.000	.142	.969	1.219	.120	.9375-20 UNEF	1.052	1.108
18	736	1.125	.142	1.062	1.312	.120	1.0625-18 UNEF	1.177	1.233
20	737	1.250	.142	1.156	1.438	.120	1.1875-18 UNEF	1.302	1.358
22	738	1.375	.142	1.250	1.562	.120	1.3125-18 UNEF	1.427	1.483
24	739	1.500	.142	1.375	1.688	.147	1.4375-18 UNEF	1.552	1.610

All dimensions for reference only. Most common options are shown; other options are available.

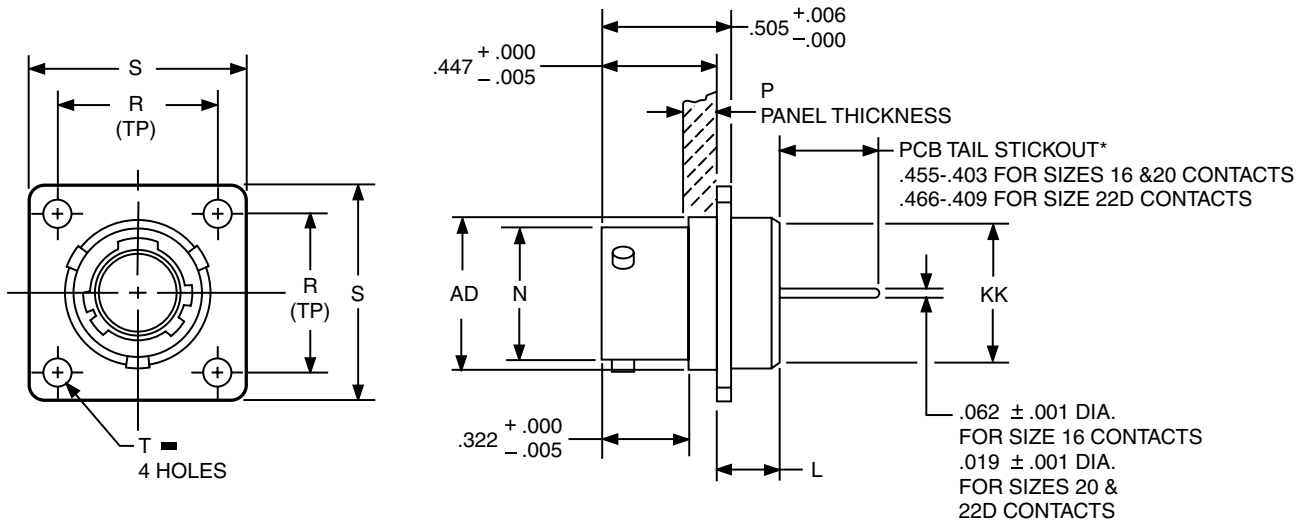
PCB Box Mounting Receptacle (Back Panel Mounting)

Commercial (JTP02R)

38999

III
Dualok
II
I
SJT
Access
Aquacon

Series II



	1.	2.	3.	4.	5.
PART #	88/91	569	74X	-35	P
See chart below	Shell Finish	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/Alt. Keying

HOW TO ORDER

1. SELECT A SHELL FINISH:

88	Designates olive drab cadmium plated connector shell
91	Designates electroless nickel plated connector shell

Consult Amphenol Aerospace for ordering of composite styles.

2. BASE NUMBER:

569	Base Number
-----	-------------

3. SELECT A CODED SHELL SIZE:

See chart below **741-749**, designates size 9-25 shell size.
Example: **741**= Size 9 Shell

4. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35	Designates Insert Arrangement Number
-----	--------------------------------------

5. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P	Designates Pin Contacts in Normal Position
S	Designates Socket Contacts in Normal Position

Shell Size	Coded Shell Size	L Max.	N $\pm .001$ / $-.005$	P Max. Panel Thickness	R (TP)	S $\pm .016$	T Dia. $\pm .005$	AD Dia. $\pm .005$	KK Dia. Max.
8	741	.225	.473	.147	.594	.812	.120	.516	.531
10	742	.225	.590	.152	.719	.938	.120	.633	.656
12	743	.225	.750	.152	.812	1.031	.120	.802	.828
14	744	.225	.875	.152	.906	1.125	.120	.927	.953
16	745	.225	1.000	.152	.969	1.219	.120	1.052	1.078
18	746	.225	1.125	.152	1.062	1.312	.120	1.177	1.203
20	747	.225	1.250	.179	1.156	1.438	.120	1.302	1.328
22	748	.225	1.375	.179	1.250	1.562	.120	1.427	1.453
24	749	.225	1.500	.169	1.375	1.688	.147	1.552	1.578

All dimensions for reference only. Most common options are shown; other options are available

B

PCB Jam Nut Receptacle

Commercial (JT07)

38999

III

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II

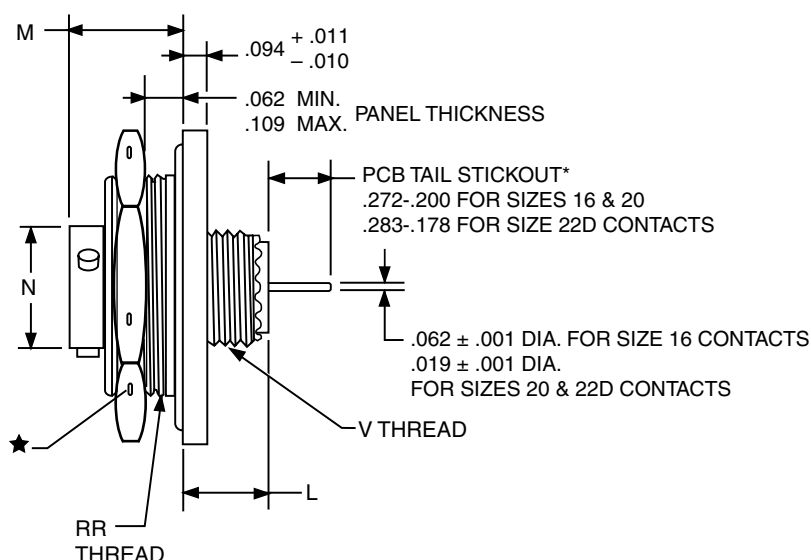
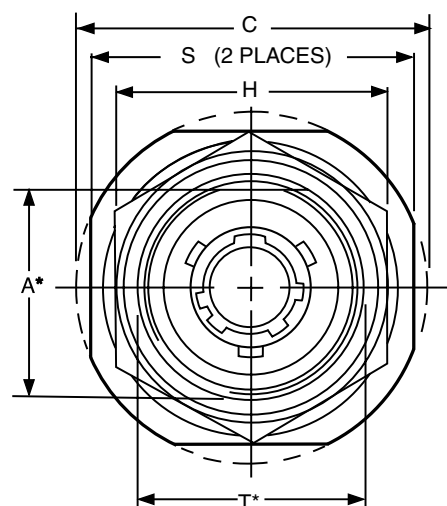
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SJT

Access

Aquacon

Series II



	1.	2.	3.	4.	5.
PART #	Shell Finish	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/Alt. Keying
See chart below	88/91	569	75X	-35	P

HOW TO ORDER

1. SELECT A SHELL FINISH:

88	Designates olive drab cadmium plated connector shell
91	Designates electroless nickel plated connector shell

Consult Amphenol Aerospace for ordering of composite styles.

2. BASE NUMBER:

569	Base Number
-----	-------------

3. SELECT A CODED SHELL SIZE:

See chart below **751-759**, designates size 9-25 shell size.
Example: **751** = Size 9 Shell

4. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35	Designates Insert Arrangement Number
-----	--------------------------------------

5. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P	Designates Pin Contacts in Normal Position
S	Designates Socket Contacts in Normal Position

Shell Size	Coded Shell Size	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)
8	751	.830	1.390	1.062	.453	.438	.473	1.250	.884	.4375-28 UNEF	.8750-20 UNEF
10	752	.955	1.515	1.188	.453	.438	.590	1.375	1.007	.5625-24 UNEF	1.0000-20 UNEF
12	753	1.084	1.640	1.312	.453	.438	.750	1.500	1.134	.6875-24 UNEF	1.1250-18 UNEF
14	754	1.208	1.765	1.438	.453	.438	.875	1.625	1.259	.8125-20 UNEF	1.2500-18 UNEF
16	755	1.333	1.953	1.562	.453	.438	1.000	1.781	1.384	.9375-20 UNEF	1.3750-18 UNEF
18	756	1.459	2.031	1.688	.453	.438	1.125	1.890	1.507	1.0625-18 UNEF	1.5000-18 UNEF
20	757	1.576	2.156	1.812	.422	.464	1.250	2.016	1.634	1.1875-18 UNEF	1.6250-18 UNEF
22	758	1.701	2.280	2.000	.422	.464	1.375	2.140	1.759	1.3125-18 UNEF	1.7500-18 UNS
24	759	1.826	2.405	2.125	.422	.464	1.500	2.265	1.884	1.4375-18 UNEF	1.8750-16 UN

All dimensions for reference only.

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

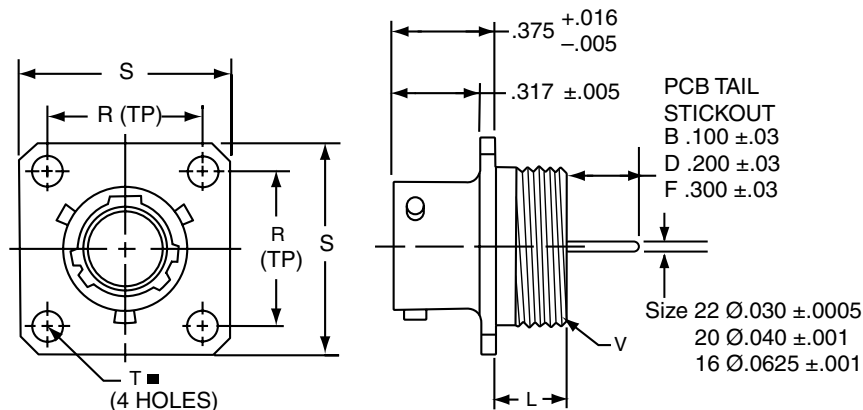
PCB Wall Mounting Receptacle Hermetic

Commercial (JT00)

38999

III
Dualok
II
I
SJT
Access
Aquacon

Series II



	1.	2.	3.	4.	5.	6.
PART #	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/Alt. Keying Position	Shell Finish	Tail Length
See chart below	10-626	431	-35	P	T	B

HOW TO ORDER

1. BASE NUMBER:

10-626	Base Number for MIL-DTL-38999 Series III Hermetic with PCB Tail
--------	---

2. SELECT A CODED SHELL SIZE:

See chart below **431-439**, designates size 9-25 shell size.

3. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35	Designates Insert Arrangement Number
-----	--------------------------------------

4. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P	Designates Pin Contacts in Normal Position
S	Designates Socket Contacts in Normal Position

5. SELECT A SHELL FINISH:

1	Hermetic seal, passivated Stainless Steel, 200°C
2	Hermetic seal, Stainless Steel w/Nickel Plate
3	Carbon Steel w/reflowed tin plate

6. SELECT A TAIL LENGTH:

B	.100±.03
D	.200±.03
F	.300±.03

⊕ .005 DIA (M)

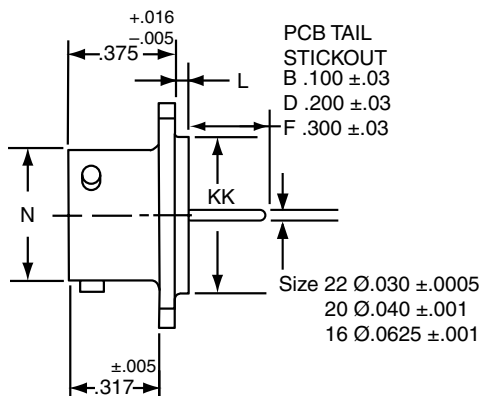
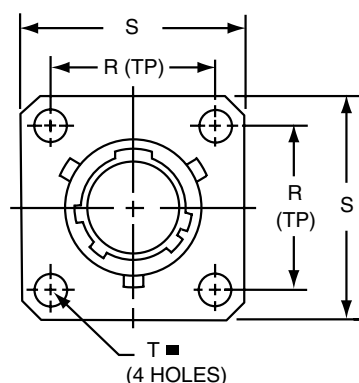
Shell Size	Part Number	L Max.	N $\pm .001$ $-.005$	R (TP)	S $\pm .016$	T $\pm .005$	V Thread Class 2A
8	10-626 431 -XXX	.234	.473	.594	.812	.120	.5625-24UNEF
10	432 -XXX	.234	.590	.719	.938	.120	.6875-24UNEF
12	433 -XXX	.234	.750	.812	1.031	.120	.8125-20UNEF
14	434 -XXX	.234	.875	.906	1.125	.120	.9375-20UNEF
16	435 -XXX	.234	1.000	.969	1.219	.120	1.0625-18UNEF
18	436 -XXX	.234	1.125	1.062	1.312	.120	1.1875-18UNEF
20	437 -XXX	.234	1.250	1.156	1.438	.120	1.3125-18UNEF
22	438 -XXX	.234	1.375	1.250	1.562	.120	1.4375-18UNEF
24	439 -XXX	.313	1.500	1.375	1.688	.147	1.5625-18UNEF

B

PCB Box Mounting Receptacle Hermetic

Commercial JT02

38999



	1.	2.	3.	4.	5.	6.
PART #	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/Alt. Keying Position	Shell Finish	Tail Length
See chart below	10-626	461	-35	P	1	B

HOW TO ORDER

1. BASE NUMBER:

10-626 Base Number for MIL-DTL-38999 Series III Hermetic with PCB Tail

2. SELECT A CODED SHELL SIZE:

See chart below **461-469**, designates size 9-25 shell size.

3. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35 Designates Insert Arrangement Number

4. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P Designates Pin Contacts in Normal Position
S Designates Socket Contacts in Normal Position

5. SELECT A SHELL FINISH:

1 Hermetic seal, passivated Stainless Steel, 200°C
2 Hermetic seal, Stainless Steel w/Nickel Plate
3 Carbon Steel w/reflowed tin plate

6. SELECT A TAIL LENGTH:

B .100±.03
D .200±.03
F .300±.03

⊕ .005 DIA (M)

Shell Size	Part Number	L +.006 -.015	N +.001 -.005	R (TP)	S ±.016	T ±.005	KK +.001 -.005
8	10-626 461 -XXX	.051	.473	.594	.812	.120	.562
10	462 -XXX	.051	.590	.719	.938	.120	.672
12	463 -XXX	.051	.750	.812	1.031	.120	.781
14	464 -XXX	.051	.875	.906	1.125	.120	.906
16	465 -XXX	.051	1.000	.969	1.219	.120	1.031
18	466 -XXX	.051	1.125	1.062	1.312	.120	1.156
20	467 -XXX	.051	1.250	1.156	1.438	.120	1.250
22	468 -XXX	.080	1.375	1.250	1.562	.120	1.375
24	469 -XXX	.080	1.500	1.375	1.688	.147	1.500

All dimensions for reference only.

PCB Jam Nut Receptacle Hermetic Commercial (JT07)

38999

III

Dualok

II

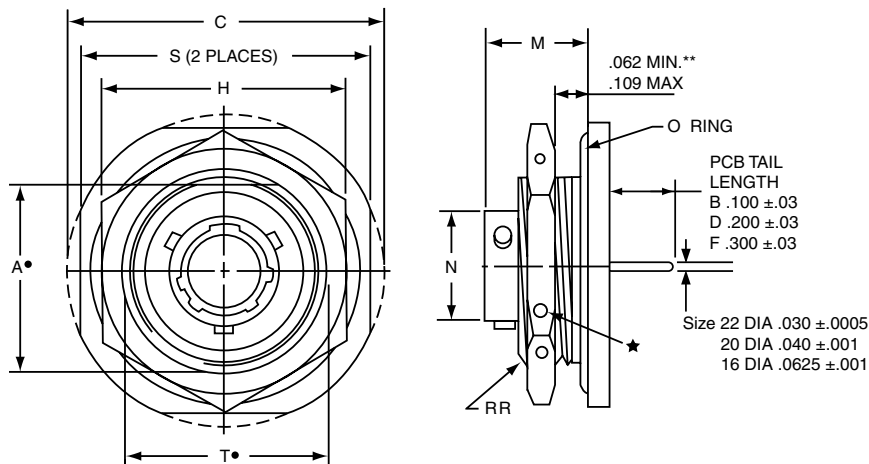
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SJT

Access

Aquacon

Series II



	1.	2.	3.	4.	5.	6.
PART #	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/ Alt. Keying Position	Shell Finish	Tail Length
See chart below	10-626	441	-35	P	1	B

HOW TO ORDER

1. BASE NUMBER:

10-626 Base Number for MIL-DTL-38999 Series III Hermetic with PCB Tail

2. SELECT A CODED SHELL SIZE:

See chart below **441-449**, designates size 9-25 shell size.

3. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35 Designates Insert Arrangement Number

4. CONTACT TYPE/ALTERNATE KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P Designates Pin Contacts in Normal Position
S Designates Socket Contacts in Normal Position

5. SELECT A SHELL FINISH:

1 Hermetic seal, passivated Stainless Steel, 200°C
2 Hermetic seal, Stainless Steel w/Nickel Plate
3 Carbon Steel w/reflowed tin plate

6. SELECT A TAIL LENGTH:

B .100±.03
D .200±.03
F .300±.03

Shell Size	Part Number	A+ +.000 -.010	C Max.	H +.017 -.016	M ±.005	N +.001 -.005	S ±.016	T+ +.010 -.000	RR Thread Class 2A
8	10-626 441 -XXX	.830	1.390	1.062	.438	.473	1.250	.884	.8750-20UNEF
10	442 -XXX	.955	1.515	1.188	.438	.590	1.375	1.007	1.0000-20UNEF
12	443 -XXX	1.084	1.640	1.312	.438	.750	1.500	1.134	1.1250-18UNEF
14	444 -XXX	1.208	1.765	1.438	.438	.875	1.625	1.259	1.2500-18UNEF
16	445 -XXX	1.333	1.953	1.562	.438	1.000	1.781	1.384	1.3750-18UNEF
18	446 -XXX	1.459	2.031	1.688	.438	1.125	1.890	1.507	1.5000-18UNEF
20	447 -XXX	1.576	2.156	1.812	.464	1.250	2.016	1.634	1.6250-18UNEF
22	448 -XXX	1.701	2.280	2.000	.464	1.375	2.140	1.759	1.7500-18UNS
24	449 -XXX	1.826	2.405	2.125	.464	1.500	2.265	1.884	1.8750-16UN

★ .059 Dia. Min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional.

+ "D" shaped mounting hole dimensions.

** Panel Thickness

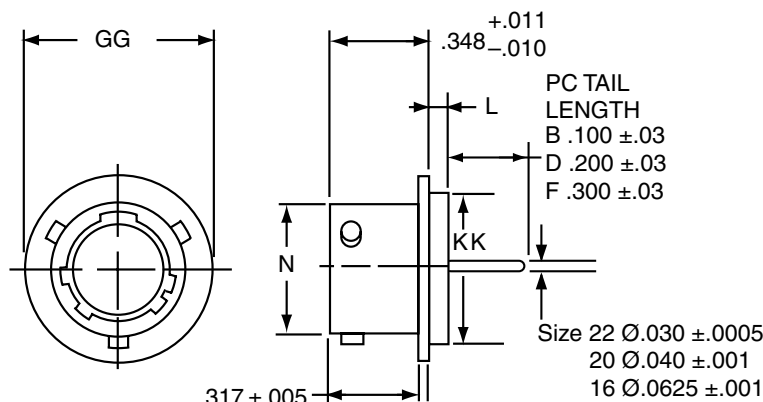
All dimensions for reference only.

PCB Solder Mounting Receptacle Hermetic Commercial (JTI)

38999

III
Dualok
II
I
SJT
Access
Aquacon

Series II



	1.	2.	3.	4.	5.	6.
PART #	Base Number	Coded Shell Size	Insert Arrg.	Contact Type/ Alt. Keying Position	Shell Finish	Tail Length
See chart below	10-626	451	-35	P	1	B

HOW TO ORDER

1. BASE NUMBER:

10-626	Base Number for MIL-DTL-38999 Series III Hermetic with PCB Tail
---------------	---

2. SELECT A CODED SHELL SIZE:

See chart below **451-459**, designates size 9-25 shell size.

3. SELECT AN INSERT ARRANGEMENT:

Refer to insert availability chart on page 2-5 and pin-out illustrations on pages 14-28.

-35	Designates Insert Arrangement Number
------------	--------------------------------------

4. CONTACT TYPE/KEYING POSITIONS:

Refer to page 89 for alternate rotation letters to use.

P	Designates Pin Contacts in Normal Position
S	Designates Socket Contacts in Normal Position

5. SELECT A SHELL FINISH:

1	Hermetic seal, passivated Stainless Steel, 200°C
2	Hermetic seal, Stainless Steel w/Nickel Plate
3	Carbon Steel w/reflowed tin plate

6. SELECT A TAIL LENGTH:

B	.100±.03
D	.200±.03
F	.300±.03

Shell Size	Part Number	L +.011 -.010	N +.001 -.005	GG +.011 -.010	KK +.001 -.005
8	10-626 451 -XXX	.078	.473	.687	.562
10	452 -XXX	.078	.590	.797	.672
12	453 -XXX	.078	.750	.906	.781
14	454 -XXX	.078	.875	1.031	.906
16	455 -XXX	.078	1.000	1.156	1.031
18	456 -XXX	.078	1.125	1.281	1.156
20	457 -XXX	.078	1.250	1.375	1.250
22	458 -XXX	.107	1.375	1.500	1.375
24	459 -XXX	.107	1.500	1.625	1.500

All dimensions for reference only.
Weld mounting hermetic receptacle also available.
Consult Amphenol Aerospace for availability and dimensions.