

Amphenol® JT/LJT Subminiature Cylindrical Connectors

12-090-18



Amphenol

Amphenol® JT/LJT

high reliability and high contact density
with maximum weight and space savings



Amphenol® JT Connector



Amphenol® LJT Connector

Amphenol® LJT and JT Series subminiature cylindrical connectors are qualified to MIL-DTL-38999*, Series I and II respectively. These connectors were developed to meet the needs of the aerospace industries, and provided the impetus for development of the MIL-C-38999 specifications, which recently were superseded by MIL-DTL-38999. Meeting or exceeding MIL-DTL-38999 requirements, Amphenol® JT/LJT connectors feature:

- **Lightweight, Space Saving Design**
- **Contact Protection** - 100% scoop-proof LJT design prevents bent pins and short circuits during mating
- **Quick Positive Coupling** - 3 point bayonet lock system
- **Mismatching Eliminated** - with 5 key/keyway design
- **Error Proof Alternate Positioning** - insured by different key/keyway locations
- **EMI Shielding** - grounding fingers standard in LJT Series; optional in JT Series
- **Nine Shell Sizes and a Variety of Shell Styles**
- **Contact Options** - size 8, 10, 12, 16, 20, 22M and 22D Crimp, Solder, PCB, Wire wrap, Coax, Twinax, Triax, Thermocouple, Fiber Optic and Filter
- **Fixed Solder Contacts** - per MIL-C-27599 (see page 52 and Amphenol Product Data Sheet 158)
- **Hermetic** - air leakage limited to 1×10^{-7} cm³ per second optional
- **“Breakaway” Lanyard Release Style** - available in LJT plugs. Provides quick disconnect of the connector plug and receptacle with axial pull on the lanyard. See pages 38-41.
- **Inventory Support Commonality** - uses standard MIL-DTL-38999 contacts, insert arrangements and application tools.
- **RoHS Compliant Product Available** - Consult Amphenol Aerospace Operations.



Where proof of high reliability and lot control is required, MS approved equivalents to most proprietary JT and LJT connectors are available.

For additional information on Amphenol JT/LJT connectors, or for special application requirements, contact your local sales office or:

Amphenol Corporation
Amphenol Aerospace
40 – 60 Delaware Avenue, Sidney, NY 13838-1395
Telephone: 607-563-5011 Fax: 607-563-5157
www.amphenol-aerospace.com

* MIL-DTL-38999 Series I supersedes MIL-C-38999 Series I.
MIL-DTL-38999 Series II supersedes MIL-C-38999 Series II.

JT/LJT

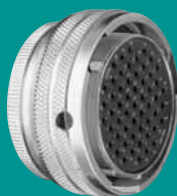
the subminiature cylindrical for every application



Wall
Mounting
Receptacle



Box
Mounting
Receptacle



Straight
Plug



Jam Nut
Receptacle



90° Plug



Solder
Mounting
Receptacle



Wall
Mounting
Receptacle



Line
Receptacle



Jam
Nut
Receptacle



Straight
Plug



Solder
Mounting
Receptacle



Lanyard
Release
Plug

Components

Shell components are impact extruded or machined bar stock aluminum. Standard plating on shell components is cadmium over nickel. Many finishes are optional (see "Specifications" page 3). Hermetic seal receptacles are available in carbon steel or stainless steel shells. Dependable 5 key/keyway polarization with bayonet lock coupling is incorporated to aid and assure positive mating.

Insert material is a rigid dielectric with excellent electrical characteristics, providing durable protection for molded-in solder type contacts. Contrasting letter or number designations are used on insert faces. A fluorinated silicone interfacial seal wafer is featured on the mating face of "crimp type pin" inserts. This assures complete electrical isolation of pins when connector halves are mated. In addition, a main joint gasket is installed in the receptacle for moisture sealing between connector halves. Both features are also available for hermetic receptacles.

Contacts

Maximum design flexibility is built into the JT/LJT Series, with a minimum of 2 to a maximum of 128 circuits per connector in a wide variety of contact arrangements. Contacts are available in sizes 8, 10, 12, 16, 20, 22, 22D and 22M with standard 50 micro inch minimum gold plating (100 micro inches optional). All socket contacts are probe proof. Crimp type rear removable contacts are featured in JT-R and LJTR connectors. Solder termination contacts are also available, as well as PCB, wire wrap, thermocouple, fiber optic, coaxial, triaxial and twinax contact options.

Optional Features

High temperature capability of 392°F is available only in JTS or LJTS crimp type connectors. High temperature versions feature gold plated contacts, high temperature shell plating, stainless steel coupling nut spring, and epoxy inserts/fluorinated silicone grommet combination. Standard temperature capability for both solder and crimp is 302°F.

The JTN or LJTN type connectors are available for N_2O_4 resistance provided they are mated, and un-grommated rear faces are suitably protected.

For complete listing and definition of connector types, shell styles and service classes, see How to Order, page 53. For information on Fail-Safe Lanyard Release style plugs see pages 38-41.

JT/LJT specifications

CONTACT RATING

Contact Size	Test Current		Maximum Millivolt Drop Crimp*	Maximum Millivolt Drop	
	Solder & Crimp	Hermetic		Solder*	Hermetic*
22M	3	2	45	20	60
22D	5	73		85	
22	5	3	73	20	85
20	7.5	5	55	20	60
16	13	10	49	20	85
12	23	17	42	20	85

* 10 (Power) tested using silver plated wire. 33 NA NA

Contact Size	Crimp Well Data		Solder Well Data	
	Well Diameter	Nominal Well Depth	Well Diameter	Nominal Well Depth
22M	.028 ±.001	.141	.029 $\begin{smallmatrix} +.004 \\ -.000 \end{smallmatrix}$	
22D	.0345 ±.0010	.141		
22	.0365 ±.0010	.141	.036 $\begin{smallmatrix} +.004 \\ -.000 \end{smallmatrix}$.094
20	.047 ±.001	.209	.044 $\begin{smallmatrix} +.004 \\ -.004 \end{smallmatrix}$.125
16	.067 ±.001	.209	.078 $\begin{smallmatrix} +.000 \\ -.004 \end{smallmatrix}$.141
12	.100 ±.002	.209	.116 $\begin{smallmatrix} +.004 \\ -.002 \end{smallmatrix}$.141
10 (Power)	.137 ±.002	.355	NA	NA

SERVICE RATING**

Service Rating	Suggested Operating Voltage (Sea Level)		Test Voltage (Sea Level)	Test Voltage 50,000 ft	Test Voltage 70,000 ft	Test Voltage 110,000 ft
	AC (RMS)	DC				
M	400	500	1300 VRMS	550 VRMS	350 VRMS	200 VRMS
N	300	450	1000 VRMS	400 VRMS	260 VRMS	200 VRMS
I	600	850	1800 VRMS	600 VRMS	400 VRMS	200 VRMS
II	900	1250	2300 VRMS	800 VRMS	500 VRMS	200 VRMS

** Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

FINISH DATA

Aluminum Shell Components Non-Hermetic				
Finish	Suffix		Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below
	Military	Proprietary		
Cadmium Plated Nickel Base	MS (A)	—	JT/JTG/JTL/JTP	LJT/LJTP
Anodic Coating (Alumilite)	MS (C)	(005)	JTS/JTPS/JTLS	LJTPS/LJTS
Chromate Treated (Iridite 14-2)		(011)	JTN/JTPN/JTLN	LJTN/LJTPN
Olive Drab Cadmium Plate Nickel Base	MS (B)	(014)		
Electroless Nickel	MS (F)	(023)		

Hermetic Connectors				
Material/Finish	Suffix		Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below
	Military	Proprietary		
Carbon Steel Shell Tin Plated Shell and Contacts			JT()H/JT()Y JTL()H/JTL()Y	LJT()Y/LJT()H
Carbon Steel Shell Tin Plated Shell and Gold Plated Contacts	MS (D)			
Stainless Steel Shell Gold Plated Contacts	MS (E)	(162)	JTS()Y JTLS()Y	LJTS()Y

JT/LJT

insert availability and identification, alternate positioning

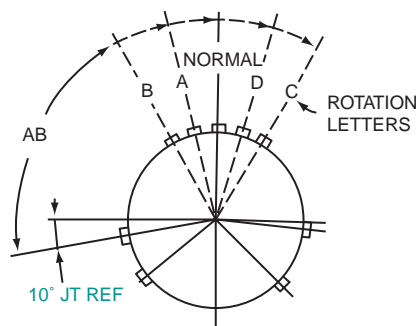
JT	LJT	Solder	Crimp	Hermetics		Service Rating	Total Con- tacts	Contact Size						
				Class H	Class Y*			22D	22M	22	20	16	12	8 (Coax)
8-2		P				M	2				2			
8-3		X	N/A	P	P	M	3				3			
	9-3	X												
8-6		X	X	P	P	M	6		6					
	9-6	X	X	P	P									
	9-7	X				M	7		7					
	9-22	X				I	2				2			
8-35			X	P	P	M	6	6						
	9-35		X	P	P									
8-44			X	P	P	M	4			4				
	9-44		X											
8-97		X				M	4		2		2			
8-98		S	X	P	P	I	3				3			
	9-98	X	X	P	P									
	11-2★		X	P**		I	2					2		
10-4			3			I	4				4			
	11-4	X	2											
10-5		X	X	P	P	I	5				5			
	11-5	X	X											
	11-6	S				I	6				6			
10-13		X	X	P	P	M	13		13					
	11-13	X	X	P	P									
10-35			X	P	P	M	13	13						
	11-35		X	P	P									
10-98		X	X	P	P	I	6				6			
	11-98	X	X	P	P									
10-99			X	P	P	I	7				7			
	11-99		P											
12-3		X	X	P	P	II	3					3		
	13-3		P											
12-4		X	X	P	P	I	4					4		
	13-4★	X	X	P	P									
12-8		X	X	P	P	I	8				8			
	13-8	X	X	P	P									
12-22			X	P	P	M	22		22					
	13-22	X	X	P	P									
12-35			X	P	P	M	22	22						
	13-35		X	P	P									
12-98		X	X	P	P	I	10				10			
	13-98	X	X	P	P									
14-4			2			I	4						4	
	15-4		2											
14-5		X	X	P	P	II	5					5		
	15-5★	X	X											
14-15		X	X	P	P	I	15				14	1		
	15-15	X	X	P	P									
14-18		X	X	P	P	I	18				18			
	15-18	X	X	P	P									
14-19		X	X			I	19				19			
	15-19		X											
14-35			X	P	P	M	37	37						
	15-35		X	P	P									
14-37		X	X	P	P	M	37		37					
	15-37	X	X	P	P									
14-68			2			1	8					8		
	15-68	X	3											
14-97			2	P	P	I	12				8	4		
	15-97	X	X	P	P									

JT MASTER 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°

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 insert always remains in the same position relative to the minor keys.

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.



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

(P) Pin inserts only (consult Amphenol, Sidney, NY for socket availability)

(2) Not tooled for RP or 02RE

(3) Pin inserts only, not tooled for RP or 02RE (consult Amphenol, Sidney, NY for availability)

* Same as H with interfacial seal

** Tooled with special terminal only (consult Amphenol, Sidney, NY for availability of standard terminal)

★ Ground plane proprietary option available. See page 55 for further information on ground plane connectors.

JT/LJT

insert availability and identification, alternate positioning

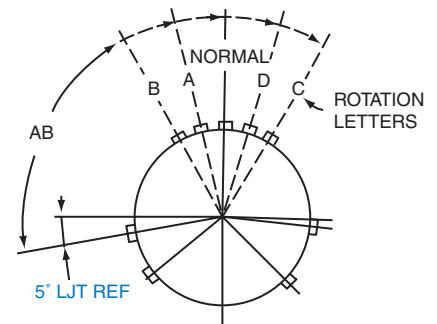
JT	LJT	Solder	Crimp	Hermetics		Service Rating	Total Con- tacts	Contact Size							
				Class H	Class Y*			22D	22M	22	20	16	12	8 (Coax)	8 (Twinax)
	17-2		X			M	39	38							1
16-6	17-6		X	P	P	I	6						6		
16-8	17-8★	X	X	P	P	II	8				8				
16-13	17-13		2			I	13				13				
	17-22					Coax	4					2 Coax	2		
	17-25		2			M	24	22						2	
16-26	17-26	X	X	P	P	I	26				26				
16-35	17-35	X	X	P	P	M	55	55							
16-42	17-42		X			M	42			42					
16-55	17-55	X	X	P	P	M	55		55						
16-99	17-99	X	X	P	P	I	23				21	2			
18-11	19-11★	X	X	P	P	II	11				11				
	19-18		2			M	18	14							4
18-28	19-28	X	X	P	P	I	28				26	2			
18-30	19-30	X	X			I	30				29	1			
18-32	19-32	X	X	P	P	I	32				32				
18-35	19-35		X	P	P	M	66	66							
18-53	19-53	X	X			M	53			53					
18-66	19-66	X	X	P	P	M	66		66						
	19-67	X	3			M	67		67						
18-68	19-68		2			I	18				18				
18-96			2			I	9					9			
20-1	21-1		X	P		M	79		79						
20-2	21-2		2			M	65			65					
20-11	21-11★		3			I	11					11			
20-16	21-16★	X	X	P	P	II	16				16				
	21-24	X				I	24				24				
	21-25	X				I	25				25				
	21-27	X				I	27				27				
20-35	21-35		X			M	79	79							
20-39	21-39	X	X	P	P	I	39				37	2			
20-41	21-41	X	X	P	P	I	41				41				

LJT MASTER KEY/KEYWAY ROTATION

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

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 insert always remains in the same position relative to the minor keys.

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.



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

(P) Pin inserts only (consult Amphenol, Sidney, NY for socket availability)

(2) Not tooled for RP or 02RE

(3) Pin inserts only, not tooled for RP or 02RE (consult Amphenol, Sidney, NY for availability)

* Same as H with interfacial seal

★ Ground plane proprietary option available. See page 55 for further information on ground plane connectors.

JT/LJT

insert availability and identification

JT	LJT	Solder	Crimp	Hermetics		Service	Total	Contact Size									
				Class	Class			22D	22M	22	20	16	12	8 (Coax)	8†† (Twinax)	10 (Power)	12 Coax
	21-75★		2			N	4							(See Note 4)			
	21-79		2			II	19	17						(See Note 5)			
22-1			X			M	100		100								
	23-1		X														
22-2		X	X	P	P	M	85			85							
	23-2	X	X	P	P												
	23-6★		P			M	6								6		
22-14			2			I	14						14				
	23-14		2														
22-21		X	X	P	P	II	21					21					
	23-21★	X	X	P	P												
22-32		X	X	P		I	32				32						
	23-32	X	P														
	23-34	X				I	34				34						
22-35			X			M	100	100									
	23-35		X														
22-53			P			I	53				53						
	23-53	X	X	P													
22-55		X	X	P	P	I	55				55						
	23-55		3														
	23-97	X				II	16					16					
	23-99	X				II	11					11					
24-1			X			M	128		128								
	25-1		X														
24-2			X			M	100			100							
	25-2		X														
24-4			X	P	P	I	56				48	8					
	25-4		X														
	25-7		2			M	99	97							2		
	25-11		2			N	11				2					9	
24-19			2			I	19						19				
	25-19★		2														
	25-20		2			N	30				10	13			3		4
24-24			X	P	P	I	24					12	12				
	25-24★		X														
24-29			X			I	29					29					
	25-29★	X	X														
24-35			X			M	128	128									
	25-35		X														
24-37			2			I	37					37					
	25-37★		2														
24-43			3			I	43				23	20					
	25-43	X	2	P	P												
	25-46		2			I	46				40	4		2†			
24-61		X	X	P	P	I	61				61						
	25-61	X	X	P	P												

(P) Pin inserts only (consult Amphenol, Sidney, NY for socket availability)

(2) Not tooled for RP or 02RE

(3) Pin inserts only, not tooled for RP or 02RE (consult Amphenol, Sidney, NY for availability)

* Same as H with interfacial seal

** Two size 16 contacts dedicated to fiber optics. Consult Amphenol, Sidney, NY or catalog section 12-352 for fiber optic contact information.

† For RG180/U and RG195/U cables only (consult Amphenol, Sidney, NY for other cable applications)

†† Size 8 Coax and Twinax are interchangeable

(4) MS connector 21-75 is supplied with four size 8 twinax contacts.

Proprietary connector 21-75 is supplied with four size 8 coax contacts.

(5) MS connector 21-79 has provision for two size 8 coax contacts. Coax contacts are not supplied unless specified by customer.

★ Ground plane proprietary option available. See page 55 for further information on ground plane connectors.

JT/LJT










insert arrangements









black arrangements – JT or LJT

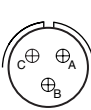
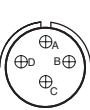
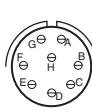




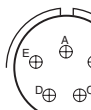
green arrangements – JT only

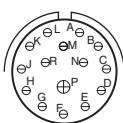

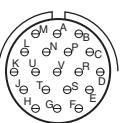

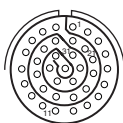
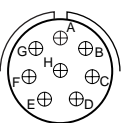
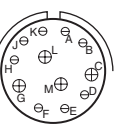
blue arrangements – LJT only

front face of pin inserts illustrated

									
Insert Arrangement (JT)	8-2	8-3	8-6			8-35	8-44	8-97	8-98
Insert Arrangement (LJT)		9-3	9-6	9-7	9-22	9-35	9-44		9-98
Service Rating	M	M	M	M	I	M	M	M	I
Number of Contacts	2	3	6	7	2	6	4	2 2	3
Contact Size	20	20	22M	22M	20	22D	22	22M 20	20

								
Insert Arrangement (JT)		10-4	10-5		10-13	10-35	10-98	10-99
Insert Arrangement (LJT)	11-2	11-4	11-5	11-6	11-13	11-35	11-98	11-99
Service Rating	I	I	I	I	M	M	I	I
Number of Contacts	2	4	5	6	13	13	6	7
Contact Size	16	20	20	20	22M	22D	20	20

								
Insert Arrangement (JT)	12-3	12-4	12-8	12-22	12-35	12-98	14-4	14-5
Insert Arrangement (LJT)	13-3	13-4	13-8	13-22	13-35	13-98	15-4	15-5
Service Rating	II	I	I	M	M	I	I	II
Number of Contacts	3	4	8	22	22	10	4	5
Contact Size	16	16	20	22M	22D	20	12	16

							
Insert Arrangement (JT)	14-15	14-18	14-19	14-35	14-37	14-68	14-97
Insert Arrangement (LJT)	15-15	15-18	15-19	15-35	15-37	15-68	15-97
Service Rating	I	I	I	M	M	I	I
Number of Contacts	14 1	18	19	37	37	8	8 4
Contact Size	20 16	20	20	22D	22M	16	20 16

							
8	10	12	16	20	22	22M	22D

CONTACT LEGEND

JT/LJT

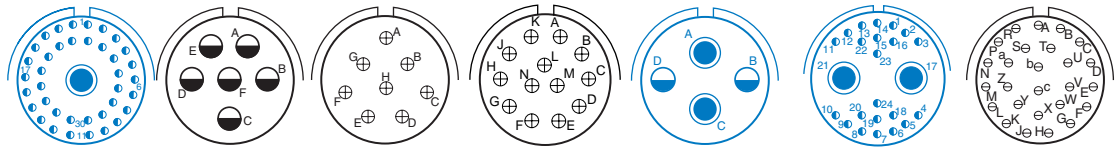
insert arrangements

black arrangements – JT or LJT

green arrangements – JT only

blue arrangements – LJT only

front face of pin inserts illustrated



Insert Arrangement (JT)

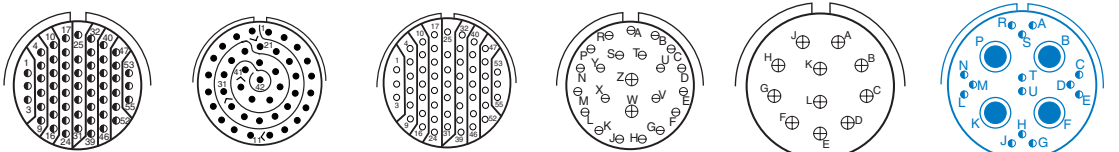
Insert Arrangement (LJT)

Service Rating

Number of Contacts

Contact Size

		16-6	16-8	16-13		16-26
17-2	17-6	17-8	17-13	17-22	17-25	17-26
M	I	II	I	Coax	M	I
38	6	8	13	2	22	26
22D	12	16	16	12 Coax	8 Coax	20



Insert Arrangement (JT)

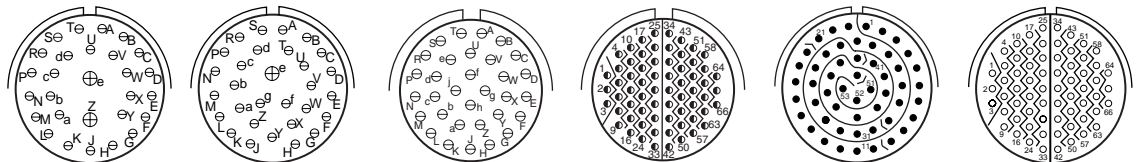
Insert Arrangement (LJT)

Service Rating

Number of Contacts

Contact Size

16-35	16-42	16-55	16-99	18-11	19-18
17-35	17-42	17-55	17-99	19-11	19-18
M	M	M	I	II	M
55	42	55	21	11	14
22D	22	22M	2	16	4
			20		22D
			16		8 Twinax



Insert Arrangement (JT)

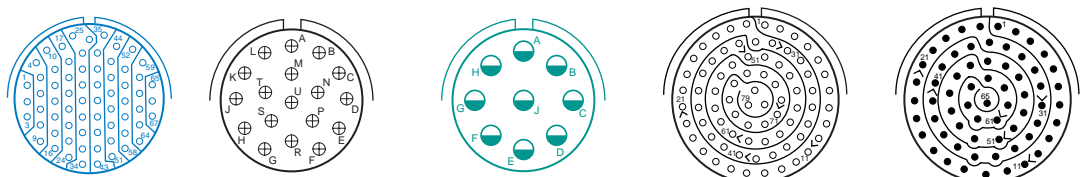
Insert Arrangement (LJT)

Service Rating

Number of Contacts

Contact Size

18-28	18-30	18-32	18-35	18-53	18-66
19-28	19-30	19-32	19-35	19-53	19-66
I	I	I	M	M	M
26	29	32	66	53	66
2	1				
20	20	20	22D	22	22M
16	16				



Insert Arrangement (JT)

Insert Arrangement (LJT)

Service Rating

Number of Contacts

Contact Size

18-68	18-96	20-1	20-2
19-67	19-68	21-1	21-2
M	I	M	M
67	18	79	65
22M	16	22M	22



JT/LJT

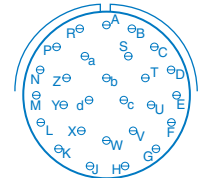
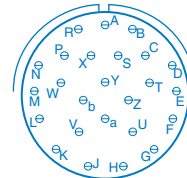
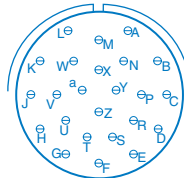
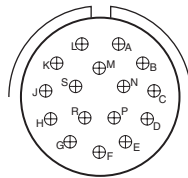
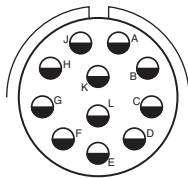
insert arrangements

black arrangements – JT or LJT

green arrangements – JT only

blue arrangements – LJT only

front face of pin inserts illustrated



Insert Arrangement (JT)

20-11

20-16

21-24

21-25

21-27

Insert Arrangement (LJT)

21-11

21-16

Service Rating

I

II

I

I

I

Number of Contacts

11

16

24

25

27

Contact Size

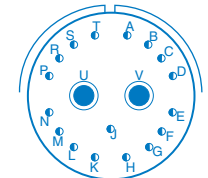
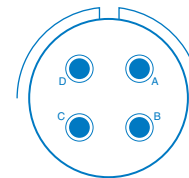
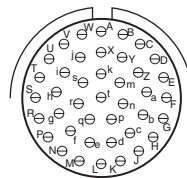
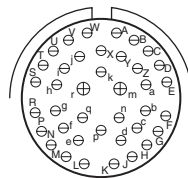
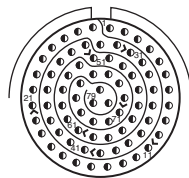
12

16

20

20

20



Insert Arrangement (JT)

20-35

20-39

20-41

21-75

21-79

Insert Arrangement (LJT)

21-35

21-39

21-41

Service Rating

M

I

I

N

II

Number of Contacts

79

37

2

41

4

17

(See Note)

Contact Size

22D

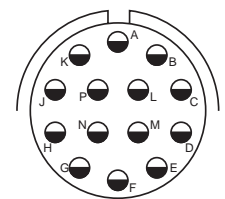
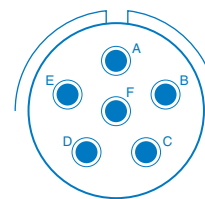
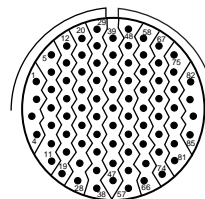
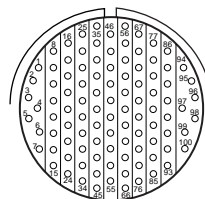
20

16

20

(See Note)

22D



Insert Arrangement (JT)

22-1

22-2

22-14

Insert Arrangement (LJT)

23-1

23-2

23-6

23-14

Service Rating

M

M

M

I

Number of Contacts

100

85

6

14

Contact Size

22M

22

8 Twinax

12

Note: MS connector 21-75 is supplied with four size 8 twinax contacts.

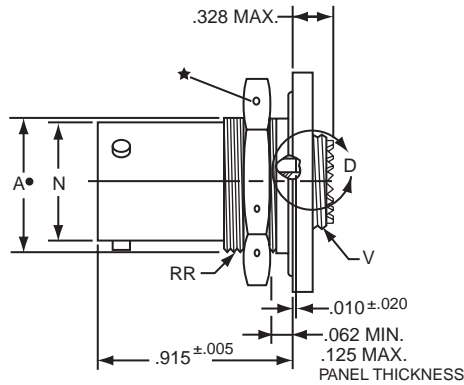
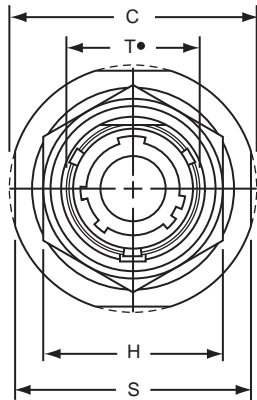
Proprietary connector 21-75 is supplied with four size 8 coax contacts.

MS connector 21-79 has provision for two size 8 coax contacts.

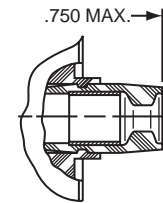
Coax contacts are not supplied unless specified by customer.



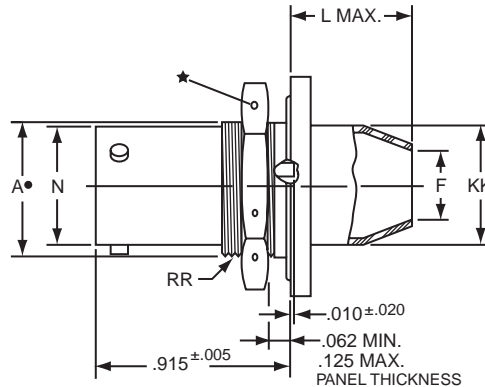
LJT07R (MS27468) — crimp jam nut receptacle



- * LJT07RE-XX-XXX (MS27468E)
- * LJT07RT-XX-XXX (MS27468T)



VIEW D ENLARGED
FOR COAXIAL USE ONLY



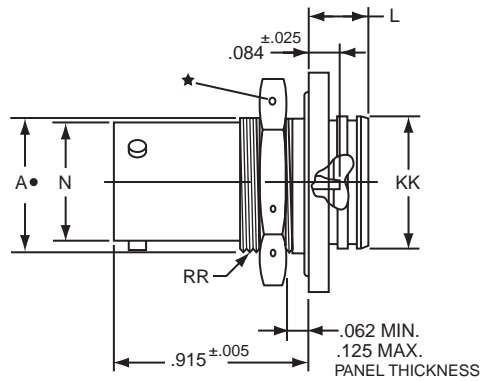
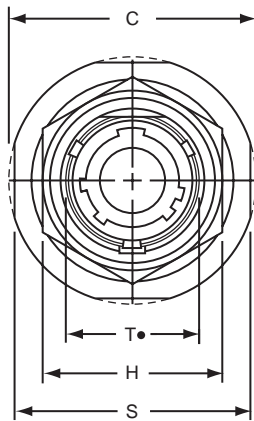
- * LJT07RP-XX-XXX (MS27468P)

- ★ .059 Dia. Min. 3 lockwire holes.
Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.
- * To complete order number see page 53.

Shell Size	A* +.000 -.010	C Max.	F Dia.	H Hex +.017 -.016	L Max.	N +.001 -.005	S ±.016	T* +.010 -.000	V Thread Class 2A (Plated)	KK Dia. Max.	RR Thread Class 2A (Plated)
9	.669	1.199	.444	.875	.625	.572	1.062	.697	.4375-28 UNEF	.608	.6875-24 UNEF
11	.769	1.386	.558	1.000	.625	.700	1.250	.822	.5625-24 UNEF	.734	.8125-20 UNEF
13	.955	1.511	.683	1.188	.625	.850	1.375	1.007	.6875-24 UNEF	.858	1.0000-20 UNEF
15	1.084	1.636	.808	1.312	.625	.975	1.500	1.134	.8125-20 UNEF	.984	1.1250-18 UNEF
17	1.208	1.761	.909	1.438	.625	1.100	1.625	1.259	.9375-20 UNEF	1.110	1.2500-18 UNEF
19	1.333	1.949	1.034	1.562	.656	1.207	1.812	1.384	1.0625-18 UNEF	1.234	1.3750-18 UNEF
21	1.459	2.073	1.159	1.688	.750	1.332	1.938	1.507	1.1875-18 UNEF	1.360	1.5000-18 UNEF
23	1.580	2.199	1.284	1.812	.750	1.457	2.062	1.634	1.3125-18 UNEF	1.484	1.6250-18 UNEF
25	1.709	2.323	1.409	2.000	.750	1.582	2.188	1.759	1.4375-18 UNEF	1.610	1.7500-18 UNS

All dimensions for reference only.

LJT07 (MS27470) — hermetic jam nut receptacle



- * LJT07H-XX-XXX
- ** LJT07Y-XX-XXX (MS27470YXXD)
- *** LJTS07Y-XX-XXX (MS27470YXXE)

- ★ .059 Dia. Min. 3 lockwire holes.
Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.
- * To complete order number see page 53.
- ** Interfacial seal wafer; to complete order number see page 53.
- *** High temperature version, interfacial seal wafer with stainless steel shell, to complete order number see page 53.

Shell Size	A★ +.000 -.010	C Max.	H Hex +.017 -.016	L Max	N +.000 -.005	S ±.016	T★ +.010 -.000	KK +.011 -.000	RR Thread Class 2A (Plated)
9	.669	1.199	.875	.297	.572	1.062	.697	.642	.6875-24 UNEF
11	.769	1.386	1.000	.297	.700	1.250	.822	.766	.8125-20 UNEF
13	.955	1.511	1.188	.297	.850	1.375	1.007	.892	1.0000-20 UNEF
15	1.084	1.636	1.312	.297	.975	1.500	1.134	1.018	1.1250-18 UNEF
17	1.208	1.761	1.438	.297	1.100	1.625	1.259	1.142	1.2500-18 UNEF
19	1.333	1.949	1.562	.328	1.207	1.812	1.384	1.268	1.3750-18 UNEF
21	1.459	2.073	1.688	.328	1.332	1.938	1.507	1.392	1.5000-18 UNEF
23	1.580	2.199	1.812	.328	1.457	2.062	1.634	1.518	1.6250-18 UNEF
25	1.709	2.328	2.000	.328	1.582	2.188	1.759	1.642	1.7500-18 UNS

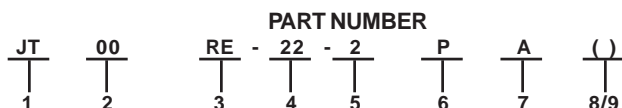
All dimensions for reference only.

JT/LJT

how to order

PROPRIETARY PART NUMBER

To more easily illustrate ordering procedure, part number JT00RE-22-2PA() is shown as follows:



See code below:

1. Connector Type:

JT	designates standard Junior Tri-Lock connector
LJT	designates long Junior Tri-Lock connector
LJTS	JTS designates high temperature connector
LJTN	JTN designates chemical and fuel resistant
JTL	designates miniature mounting dimensions
JTLN	designates miniature mounting dimensions - chemical resistant
JTLS	designates miniature mounting dimensions - high temperature
LJTPQ	JTPQ designates back panel mounted wall mounting receptacle
LJTP	JTP designates back panel mounted box mounting receptacle
LJTPN	JTPN designates back panel mounted - chemical resistant
LJTSP	JTSP designates back panel mounted - high temperature
JTG	designates plug with grounding fingers*
JTNG	designates plug with grounding fingers* - chemical resistant

2. Shell Style

00	designates wall mount receptacle
01	designates line mount receptacle
02	designates box mount receptacle
06	designates straight plug
07	designates jam nut receptacle
08	designates 90 degree plug
I	designates solder mount receptacle - hermetic

Lanyard Release Connectors (See pages 38-41 for ordering)

88	designates Fail Safe lanyard release plug with corrosion resistant olive drab cadmium plate over nickel shells
91	designates Fail Safe lanyard release plug with electroless nickel plated aluminum shells.

3. Service Class: Solder contacts/connectors:

"P"	for potting applications - These connectors are supplied with a potting boot.† All shells are designed with integral features to retain potting boots.
"A"	for general applications.
"A (SR)"	- threaded rear design with strain relief.†
"C"	for pressurized applications
"C (SR)"	- threaded rear design with strain relief.†
"E"	box mount and thru-bulkhead only with no backend threads.
"H"	for 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.
"Y"	same as "H" with interfacial seal.
"T"	for MS27599A applications - general duty, pressurized (receptacles only)

3. Service Class: Crimp contacts/connectors:

"RP"	for potting crimp applications. Supplied with spacer grommet and potting boot.††
"RE"	for environmental crimp applications. Supplied with a grommet and compression nut.† Can be supplied with strain relief integral with compression nut "RE (SR)". (JT Series only).
"RGF"	* electroless nickel plated ground plane aluminum, 200°C
"RGW"	** olive drab cadmium plated ground plane aluminum, 175°C
"RT"	for environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells.

For additional information defining description of service class, consult Amphenol, Sidney, NY.

4. Shell Size:

JT shell sizes available from 8 through 24.
LJT shell sizes available from 9 through 25.

5. Insert Arrangement:

22-2 designates insert arrangement. Refer to pages 4-11 for insert availability.

6. Contact Style:

P designates pin contacts; S designates socket contacts.

7. Alternate Keying:

"A" designates alternate keying connector assembly. Other basic alternate keys are "B", "C" and "D". No letter required for normal (no rotation) position. See pages 4 and 5.

8. Strain Relief Option:

"SR" designates a strain relief clamp. Strain reliefs are available only on "A", "C" and "RE" class connectors.

9. Finish Variation Suffix:

See finish variations available in table below:

Finish	Military Finish Data	Finish Suffix	Finish Plus "SR" Suffix
Cadmium plated nickel base	A		(SR)
Olive drab cadmium plate nickel base	B	(014)	(386)
Electroless nickel	F	(023)	(424)
Electroless nickel, space compatible		(453)	(467)
Anodic coating (Alumilite)	C	(005)	(300)
Chromate treated (Iridite 14-2)		(011)	(344)
Passivated steel	E	-	-
Nickel-PTFE		(038)	

MILITARY TYPES

MS27473	E	14	A	18	P	A
MS Number _____	Service Class _____	Shell Size _____	Finish _____	Insert Arrangement _____	Contact Style (P or S) _____	Alternate Keying (No letter required for normal position) _____

Military Service Class
 E environmental, same as RE
 T environmental, same as RT
 P potting, same as RP
 Y hermetically sealed, same as Y
 For finish variations see above chart. For additional data, see page 3.
 For MS depictions and dimensional data see applicable Mil-Spec.
 (MIL-DTL-38999, MIL-C-27599).
 Military Fail Safe lanyard release plug MS27661 - See pages 38-41 for ordering.

* Grounding fingers standard on all LJT plugs

† Not applicable to box mounting style or LJT Series I.

†† Not applicable to box mounting style.

** For more information on Coax/Triax/Twinax Ground Plane Connectors, see page 55.