Amphenol[®] JT/LJT high reliability and high contact density with maximum weight and space savings



Amphenol[®] JT Connector



Amphenol[®] LJT Connector

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 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aerospace industries, and provided the impetus for development of the MIL-C-38999 specifications, which recently were superseded by MIL-DTL-38999.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
- Mismating 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 X 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.

* 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



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 LJT-R 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 ungrommeted 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

	Test C	Current	Maximum	Maximum Millivolt Drop		
Contact Size	Solder & Crimp	Hermetic	Millivolt Drop Crimp*	Solder*	Hermetic*	
22M	3	2	45	20	60	
22D	5	3	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)	33	NA	33	NA	NA	

CONTACT RATING

	Crimp W	/ell Data	Solder Well Data		
Contact Size	Well Diameter	Nominal Well Depth	Well Diameter	Nominal Well Depth	
0.20	Diamotor	Weir Dopar	Diamotor	Weil Dopar	
22M	.028 ±.001	.141	.029 ^{+.004} 000		
22D	.0345 ±.0010	.141			
22	.0365 ±.0010	.141	.036 ^{+.004} 000	.094	
20	.047 ±.001	.209	.044 +.004 004	.125	
16	.067 ±.001	.209	.078 +.000 004	.141	
12	.100 ±.002	.209	.116 ^{+.004} 002	.141	
10 (Power)	.137 ±.002	.355	NA	NA	

When tested using silver plated wire.

*

SERVICE RATING**

Service	Suggested Op (Sea	erating Voltage Level)	Test Voltage	Test Voltage	Test Voltage	Test Voltage	
Rating	AC (RMS)	DC	(Sea Level)	50,000 ft	70,000 ft	110,000 ft	
М	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	
Ш	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 Military Proprietary		Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below				
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 Military Proprietary		Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below				
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

				Hern	netics		Total			Co	ntact S	Size		
				Class	Class	Service	Con-							8
JT	LJT	Solder	Crimp	Н	Y*	Rating	tacts	22D	22M	22	20	16	12	(Coax)
8-2		Р				М	2				2			
0.2		×	NI/A	D	D									
0-0	9-3	X	IN/A	F	F	М	3				3			
8-6	3-0	X	x	Р	Р									
00	9-6	X	X	P	P	М	6		6					
		~	~				_		_					
	9-7	Х				м	1		1					
							0				~			
	9-22	Х				I	2				2			
8-35			Х	Р	Р	м	6	6						
	9-35		Х	Р	Р	141	0	Ŭ						
8-44			Х	Р	Р	м	4			4				
	9-44		X							-				
8-97		X				М	4		2		2			
0.00		0	V	D	D									
0-90	0.09	5 V	×	P	P	I.	3				3			
	9-90	^	^	F	Г									
	11-2+		X	P**		I	2					2		
10-4	1124		3											
	11-4	Х	2			I	4				4			
10-5		Х	Х	Р	Р		F				F			
	11-5	Х	Х			1	5				5			
						1	6				6			
	11-6	S					0				0			
10-13		Х	Х	Р	Р	м	13		13					
	11-13	Х	Х	Р	Р		10		10					
10-35			X	P	P	м	13	13						
10.00	11-35	X	X	P	P									
10-98	11.00	X	X	P	P	1	6				6			
10.00	11-98	X	×	P	Р									
10-99	11-00			F	Г	I	7				7			
12-3	11-33	x	X	Р	Р									
12.0	13-3	~	P			11	3					3		
12-4		Х	X	Р	Р									
	13-4★	Х	Х	Р	Р	I	4					4		
12-8		Х	Х	Р	Р	1	0				٥			
	13-8	Х	Х	Р	Р		0				0			
12-22			Х	Р	Р	м	22		22					
	13-22	Х	X	P	P									
12-35	10.05		X	P	P	м	22	22						
10.00	13-35	V	X	P	P									
12-98	12.00	X	X	Р	Р	I	10				10			
14-4	19-90	^	2	٢	٢									
1-4-4	15-4		2			I	4						4	
14-5	10 4	Х	X	Р	Р		-					_		
	15-5*	X	X			11	5					5		
14-15		Х	Х	Р	Р		15				4.4	4		
	15-15	Х	Х	Р	Р	1	15				14			
14-18		Х	Х	Р	Р	I	18				18			
	15-18	Х	Х	Р	Р	'	10				10			
14-19		Х	X				19				19			
11.05	15-19		X	_			-							
14-35	45.05		X	P	P	М	37	37						
14.07	15-35	v	X	۲ 0	2									
14-37	15.27	×	×	P	۲ ۵	М	37		37					
14-62	10-37	^	2	Г	Г									
100	15-68	×	3			1	8					8		
14-97	10 00	~	2	Р	Р									
	15-97	Х	X	P	P	I	12				8	4		
				_							_			

JT MASTER KEY/KEYWAY ROTATION

	AB ANGLE OF ROTATION (Degrees)									
Shell Size	Normal	A	В	С	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 arrangements

black arrangements – JT or LJT green arrangements – JT only blue arrangements – LJT only

 \oplus Θ \bullet \circ

16 20 22 22M 22D

 \mathbf{i}

12

8 10

Ø

front face	of	pin	inserts	illustrated
		P		

		$ \begin{pmatrix} C & A \\ \Theta & \Theta \\ \Theta^B \end{pmatrix} $						
Insert Arrangement (JT)	8-2	8-3 0-3	8-6	0-7	6-22	3-35 8-44	4 8-97	8-98
Service Rating	М	M	M	M	9-22 3 I	M M	M	9-90 I
Number of Contacts Contact Size	2 20	3 20	6 22M	7 22M	2 20 2	6 4 22D 22	2 2 22M 20	3) 20
			$\begin{bmatrix} E_{\Theta} & \Theta^A \\ D_{\Theta} & \zeta & \Theta^B \end{bmatrix}$	$\begin{bmatrix} F & \Theta^A \\ \Theta & \Theta \\ B \\ \Theta & \Theta \\ D & \Theta \end{bmatrix}$	$\begin{array}{c} 0 & 0^{-1} & 0^{-2} \\ 0 & 0^{-1} & 0 \\ 0 & 0^{-1} & 0^{-2} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{pmatrix} A_{\Theta} \\ E_{\Theta} \ \Theta^F \ \Theta^B \\ D\Theta \ \Theta_C \end{pmatrix}$	$ \begin{pmatrix} \Theta^F & \Theta A \\ \Theta & \Theta \\ \Theta & \Theta \\ \Theta & \Theta \\ \Theta & C \\ O & C$
Insert Arrangement (JT)	11-2	10-4 11-4	10-5 11-5	11-6	10-13 11-13	10-35 11-35	10-98 11-98	10-99 11-99
Service Rating	1	1	I	I	М	M	I	I
Number of Contacts Contact Size	2 16	4 20	5 20	6 20	13 22M	13 22D	6 20	7 20
	$\begin{pmatrix} & & \\ & $	$ \begin{array}{c} \textcircled{\oplus} A \\ \textcircled{\oplus} D \\ \textcircled{\oplus} C \\ \end{array}{$	$ \begin{array}{c} \left(\begin{array}{c} G \\ G \\ F \\ \Theta \\ \Theta$			$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$		$ \begin{pmatrix} A \\ \oplus \\$
Insert Arrangement (JT)	12-3	12-4	12-8	12-22	12-35	12-98	14-4	14-5
Service Rating	13-3 II	13-4 I	13-8 I	Т <u>3-22</u> М	13-35 M	13-98 I	15-4 I	15-5 II
Number of Contacts Contact Size	3 16	4 16	8 20	22 22M	22 22D	10 20	4 12	5 16
	$\begin{pmatrix} 0 & A & 0 & 0 \\ 0 & A & 0 $	$\begin{array}{c} A \\ L \\ \Theta \\ H \\ \Theta \\ \Theta$	$\left(\begin{array}{c} \left(\begin{array}{c} \left(\right(\left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\right(\left(\begin{array}{c} \left(\begin{array}{c} \left(\right(\left(\begin{array}{c} \left(\right(\left(\begin{array}{c} \left(\right)\right)} \left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left($				$ \begin{array}{c} (\oplus \overset{\oplus}{\oplus} \overset{\oplus}{H} \oplus B \\ F \oplus \overset{\oplus}{\oplus} \overset{\oplus}{H} \oplus \overset{\oplus}{\oplus} C \\ E \oplus \overset{\oplus}{\oplus} D \end{array} \end{array} $	$ \begin{array}{c} \begin{array}{c} & & \\$
Insert Arrangement (JT)	14-15	14-18	14-1	9 1	14-35	14-37	14-68	14-97
Insert Arrangement (LJT) Service Rating	15-15 I	15-18 I	15-1 I	9 1	I5-35 M	15-37 М	15-68 I	15-97 I
Number of Contacts	14 1 20 16	18	19		37 220	37 22M	8 16	84 2016
	20 10	20	20		220	22IVI	10	20 10

CONTACT LEGEND

JT06R (MS27473) – crimp straight plug



* To complete order number see page 53.

**

High temperature version; to complete order number see page 53. Clear iridite finish (gold color), N₂O₄ resistant; to complete order number see page 53. ***

		F ¹						V Threa	d Modified			-
Shell Size	F Dia.	Dia. +.010 025	L Max.	L ¹ Max.	L² Max.	L³ Max.	Q Dia. Max.	Class 2A UNEF	Modified Major Dia.	KK Dia. Max.	KK1 Max.	KK² Dia. Max.
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
		oforonoo										

All dimensions for reference only.

JT/LJT application tools

The following data includes information pertaining to the application tools which have been established for crimping, inserting, and removing the size 12, 16, 20, 22, 22D and 22M contacts incorporated in the JT-R, LJT-R and MIL-DTL-38999 (MS) series connectors as applicable.

All crimping tools included are the "full cycling" type and when used as specified in the installation instructions (L-624 and

L-844 covering the JT-R, LJT-R and MS series connectors) will provide reliable crimped wire to contact terminations. There is a possibility of additional crimping tools other than those included being available at present or in the future for this specific application.

For additional information on coaxial contacts, consult Amphenol catalog section 12-130.

Contact Size/Type	Crimping Tool	Turret Die or Positioner
12 Pin and Socket	M22520/1-01	M22520/1-04
16 Pin and Socket	M22520/1-01 M22520/7-01	M22520/1-04 M22520/7-04
20 Pin and Socket	M22520/1-01 M22520/2-01 M22520/7-01	M22520/1-04 M22520/2-10 M22520/7-08
22, 22D, 22M Pin	M22520/2-01 M22520/7-01	M22520/2-09 M22520/7-07
22, 22D, 22M Socket (LJT-R)	M22520/2-01 M22520/7-01	M22520/2-07 M22520/7-05
22D Socket (JT-R)	M22520/2-01 M22520/7-01	M22520/2-06 M22520/7-06
8 Twinax Center Pin and Socket	M22520/2-01	M22520/2-37
8 Twinax Intermediate Outer Pin & Socket	M22520/5-01	M22520/5-200

CRIMPING TOOLS

Contact Size/Type	Crimping Tool	Turret Die or Positioner
8 (Coaxial Inner Pin and Socket)	M22520/2-01	M22520/2-31
	M22520/5-01	M22520/5-05 Die Closure B
8 Coaxial Outer Pin and Socket	M22520/5-01	M22520/5-41 Die Closure B
	M22520/10-01	M22520/10-07 Die Closure B
16 Coaxial Inner Pin and Socket	M22520/2-01	M22520/2-35
16 Coaxial Outer Pin and Socket	M22520/4-01	M22520/4-02
12 Coaxial Inner Pin and Socket	M22520/2-01	M22520/2-34
12 Coaxial Outer Pin and Socket	M22520/31-01	M22520/31-02
10 (Power)	††	††

Where 2 or 3 tools are listed for a contact size, only one tool and its die or positioner are required to crimp the contact. The above crimping tools and positioners are available from the approved tool manufacturer.

INSERTION TOOLS

				-			
	Plastic Tools		Metal Tools				
			Angle Type				
Use with Contact Size	Part Number	Color Code	MS Part Number	Proprietary Part Number	Straight Type Proprietary Part Number	Color Code	
10 (Power)	M81969/14-05*	Gray/White	M81969/8-11	†	†	Green	
12	M81969/14-04*	Yellow/(White)	M81969/8-09	11-8674-12	11-8794-12	Yellow	
16	M81969/14-03*	Blue/(White)	M81969/8-07	11-8674-16	11-8794-16	Blue	
20	M81969/14-10*	Red/(Orange)	M81969/8-05	11-8674-20	11-8794-20	Red	
22	M81969/14-09	Brown/(White)	M81969/8-03	11-8674-22	11-8794-22	Brown	
22D, 22M	M81969/14-01*	Green/(White)	M81969/8-01	11-8674-24	11-8794-24	Black	
8 Coaxial	None Required						
8 Twinax	None		M81969/46-06**	None		Red	

REMOVAL TOOLS

	Plastic	Tools	Metal Tools					
				Angle Type				
Use with Contact Size	Part Number	Color Code	For Unwired Contacts Proprietary Part Number	MS Part Number	Proprietary Part Number	Straight Type Proprietary Part Number	Color Code	
10 (Power)	M81969/14-05*	(Green)/White	t	M81969/8-12	†	t	Green/White	
12	M81969/14-04*	(Yellow)/White	11-10050-11	M81969/8-10	11-8675-12	11-8795-12	Yellow/White	
16	M81969/14-03*	(Blue)/White	11-10050-10	M81969/8-08	11-8675-16	11-8795-16	Blue/White	
20	M81969/14-10*	(Red) Orange	11-10050-9	M81969/8-06	11-8675-20	11-8795-20	Red/White	
22	M81969/14-09*	(Brown)/White	11-10050-8	M81969/8-04	11-8675-22	11-8795-22	Brown/White	
22D, 22M	M81969/14-01*	(Green)/White	11-10050-7	M81969/8-02	11-8675-24	11-8795-24	Green/White	
8 Coaxial	M81969/14-12	Green	None	None	11-9170	DRK264-8††	N/A	
8 Twinax	M81969/14-12	Green	None	M81969/46-12**	11-9170	N/A	N/A	

The M81969/8, 11-8674, 11-8675, and 11-8794 metal contact insertion and removal tools will accommodate wires having the maximum outside diameter as follows: Contact size 12–.155, 16–.109, 20–.077, 22, 22D, 22M–.050. When wire diameters exceed those specified, the plastic tools must be used.

Double ended insertion/removal tool.

- ** Twinax insertion and removal tools are available only in a straight type, metal version.
- † To be determined
- t Contact Daniels Manufacturing Co. for availability.

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:

2.

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
LJTPS	JTPS	designates back panel mounted - high temperature
	JTG	designates plug with grounding fingers*
	JTNG	designates plug with grounding fingers* - chemical resistant
Shell St	yle	

- 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
- designates solder mount receptacle hermetic 1

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
- designates Fail Safe lanyard release plug with electroless nickel plated 91 aluminum shells.

3. Service Class: Solder contacts/connectors:

- for potting applications These connectors are supplied with a potting "P" 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)

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

Grounding fingers standard on all LJT plugs

3. Service Class: Crimp contacts/connectors:

- "RP" for potting crimp applications. Supplied with spacer grommet and potting boot.++
- "BF" 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	Finish	Finish Plus
FILISI	Dala	Sullix	on Sullix
Cadmium plated nickel base	А		(SR)
Olive drab cadmium plate nickel base	В	(014)	(386)
Electroless nickel	F	(023)	(424)
Electroless nickel, space compatible		(453)	(467)
Anodic coating (Alumilite)	С	(005)	(300)
Chromate treated (Iridite 14-2)		(011)	(344)
Passivated steel	E	-	-

MILITARY TYPES

A

Military Service Class

- E environmental, same as RE
- environmental, same as RT т Ρ
- potting, same as RP Υ
- 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.

- Not applicable to box mounting style or LJT Series I. t
- Not applicable to box mounting style. **††**
- For more information on Coax/Triax/Twinax Ground Plane Connectors, see page 55.