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MIL-DTL-38999, Series II JT

MIL-DTL-38999, Series I LJT



**MIL-DTL-38999
Series I LJT**

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 19). 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 N₂O₄ 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, pages 62 & 63. For information on Fail-Safe Lanyard Release style plugs, see pages 94-96.

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.

Features & Benefits

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 industry, and provided the impetus for development of the MIL-C-38999 specifications, which has been 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** - Amphenol MIL-DTL-38999 Series I LJT and II JT, are available in solder versions as both Commercial and Military qualified to MIL-DTL-27599
- **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 94-96.
- **Inventory Support Commonality** - uses standard MIL-DTL-38999 contacts, insert arrangements and application tools.
- **RoHS Compliant Product Available** - Consult Amphenol Aerospace Operations.



**MIL-DTL-38999
Series II JT**

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts Connectors Cables

EMI Filter Transient
26482 Matrix 2
83723 III Matrix Pyle
26500 Pyle

5015 Crimp Rear Release Matrix
22992 Class I

Back-Shells
Options Others

Easy Steps to build a commercial part number... Series I and II

Commercial

1.	2.	3.	4.	5.	6.	7.	
Connector Type Series I	Type II	Shell Style	Service Class	Shell Size-Insert Arrangement	Contact Type	Alternate Position	Strain Relief/Finish Variation Suffix
LJT	JT	00	RT	9-35	P	B	SR (014)

Step 1. Select a Connector Type

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
JT						

Series I	Series II	Designates
	JT	Standard Junior Tri-Lock
LJT		Long Junior Tri-Lock
LJTS	JTS	High temperature connector
LJTN	JTN	Chemical and fuel resistant
	JTL	Miniature mounting dimensions
	JTLN	Miniature mounting dimensions—Chemical resistant
	JTLS	Miniature mounting dimensions— High temperature
LJTPQ	JTPQ	Back panel mounted wall mounting receptacle
LJTP	JTP	Back panel mounted box mounting receptacle
LJTPN	JTPN	Back panel mounted—Chemical resistant
LJTPS	JTPS	Back panel mounted—High temperature
	JTG	Plug with grounding fingers*
	JTNG	Plug with grounding fingers* —Chemical resistant

*Grounding fingers standard on all LJT plugs

Step 2. Select a Shell Style

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
	00					

JT	JTL	JTPQ	JTG	Designates
JTS	JTLN	JTP	JTNG	
JTN	JTLS	JTPN		
LJT		JTPS		
LJTS		LJTPQ		
LJTN		LJTP		
		LJTPN		
		LJTPS		
00		00		Wall mount receptacle (Hermetic option)
01				Line mount receptacle (Non-hermetic)
02		02		Box mount receptacle (Hermetic Option except for LJTN)
06			06	Straight plug (Non-hermetic)
07	07			Jam nut receptacle (Hermetic Option)
08			08	90 degree plug (Non-hermetic)
I				Solder mount receptacle (hermetic)

Series I LJT

Series II JT



Wall Mounting Receptacle



Wall Mounting Receptacle



Line Receptacle



Box Mounting Receptacle



Jam Nut Receptacle



Straight Plug



Straight Plug



Jam Nut Receptacle



Solder Mounting Receptacle



90° Plug



Lanyard Release Plug
(See pages 94-96 for ordering)



Solder Mounting Receptacle

- 38999
- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts
- Connectors
- Cables

- EMI Filter
- Transient

- 26482
- Matrix 2

- 83723 III
- Matrix | Pyle

- 26500
- Pyle

- 5015
- Crimp Rear Release Matrix

- 22992
- Class I

- Back-Shells

- Options
- Others

How to Order (Commercial)

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter
- Transient

- 26482
- Matrix 2

- 83723 III
- Matrix | Pyle

- 26500
- Pyle

- 5015
- Crimp Rear Release Matrix

- 22992
- Class 1

- Back-Shell

- Options
- Others

Step 3. Select a Service Class

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
		RX				

JT	JTS	JTN	JTG JTNG	LJTS	LJT	Solder Contacts/Connectors
P		P			P	Potting applications: These connectors are supplied with a potting boot. All shells are designed with integral features to retain potting boots.
A		A	A			General Applications (JT only molded in solder type contacts)
A (SR)						Threaded rear design with strain relief †
C					C	Pressurized applications
C (SR)						Threaded rear design with strain relief. †
H	H				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.
Y	Y			Y	Y	Same as "H" with interfacial seal.
T					T	MIL-DTL-27599 applications-general duty, pressurized (receptacle only) (LJT only molded in solder type contacts)

JT JTN JTG JTNG JTPQ LJT JTPQ LJTPQ	JTS	JTLS	JTL JTLN LJTP	LJTS	JTPS LJTPS	Crimp Contacts/Connectors
RP	RP	RP	RP			Potting crimp applications. Supplied with spacer grommet and potting boot. ††
RE	RE	RE	RE	RE	RE	Environmental crimp applications. Supplied with a grommet and compression nut. † Can be supplied with strain relief integral with compression nut "RE(SR)".
RT	RT		RT	RT	RT	Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells.

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

Step 4. Select a Shell Size & Insert Arrangement see page 6-9

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

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
			22-2			

Step 5. Select a Contact Type

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
				P		

	Designates
P	Pin Contacts
S	Socket Contacts

How to Order (Commercial)

38999

- III
- HD
- Dualok
- II**
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED**
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter Transient

- 26482 Matrix 2

- 83723 III Matrix | Pyle

- 26500 Pyle

- 5015 Crimp Rear Release Matrix

- 22992 Class I

- Back-Shells

- Options Others

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size Insert Arrg.	Contact Type	Alternate Position	Special Variations
					A	

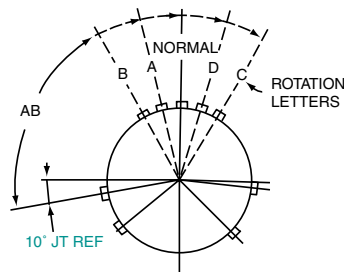
Step 6. Select an Alternate Keying Position

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

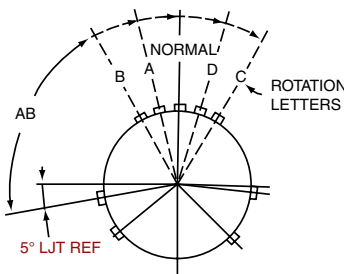
A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The AB angle for a given connector is the same whether it contains pins or sockets. Only the master key/keyway rotates in the shell, and the minor keys are fixed.

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)



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°

LJT 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°

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position	Special Variations
						()

Step 7. 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 3. 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		(038)	

How to Order (Military)

Easy Steps to build a Military part number... Series I and II
Military

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Keying Position
MS27473	E	14	A	18	P	A

Step 1. Choose your Military Connector Type

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Position
MS27473						

Series II JT

MIL-DTL-38999	
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

Series I LJT

MIL-DTL-38999	
MS27466	Crimp Wall Mount Receptacle
MS27656	Crimp Wall Mount Receptacle (Back Panel Mounting)
MS27496	Crimp Box Mounting Receptacle
MS27505	Crimp Box Mounting Receptacle (Back Panel Mounting)
MS27467	Crimp Straight Plug
MS27468	Crimp Jam Nut Receptacle
MS27469	Hermetic Wall Mounting Receptacle
MS27470	Hermetic Jam Nut Receptacle
MS27471	Hermetic Solder Mounting Receptacle
MIL-DTL-27599	
MS20026	Solder Wall Mounting Receptacle
MS20027	Solder Line Receptacle
MS20028	Solder Straight Plug
MS20029	Solder Jam Nut Receptacle

Step 2. Select a Military Service Class

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Position
	E					

Military	Service Class
E	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). Box Mount versions using spacer grommets are not environmental.
P	Potting crimp applications. Supplied with spacer grommet and potting boot.††
T	Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells. (Not applicable to solder type or hermetics)
Y	Hermetically interfacial seal

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

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED

Fiber Optics
Contacts Connectors Cables

EMI Filter

Transient

26482

Matrix 2

83723 III

Matrix Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-Shells

--

Options

Others

How to Order (Military)

38999

- III
- HD
- Dualok
- II**
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

Step 3 & 5. Select a Shell Size and Insert Arrangement from Pages 6-9

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

Shell Size & Insert Arrangement are on pages 6-9. First number represents Shell Size, second number is the Insert Arrangement. Place Shell Size in box 3 and Insert Arrangement in box 5.

Step 4. Select a Military Finish

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Position
			A			

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		(038)	

Step 6. Select a Military Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Position
					P	

Step 7. Select an Alternate Keying Position

See page 64 for information, No letter required for normal position

1.	2.	3.	4.	5.	6.	7.
MS Number	Service Class	Shell Size	Finish	Insert Arrangement	Contact Style (P or S)	Alternate Position
						A

- HIGH SPEED**
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter Transient

- 26482 Matrix 2

- 83723 III Matrix | Pyle

- 26500 Pyle

- 5015 Crimp Rear Release Matrix

- 22992 Class I

- Back-Shells

- Options Others

- 38999
- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB
- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter Transient

- 26482 Matrix 2

- 83723 III Matrix | Pyle

- 26500 Pyle

- 5015 Crimp Rear Release Matrix

- 22992 Class I

- Back-Shells

- Options Others

Series	Series	Series	Military	MIL-DTL-27599 JT/LJT Solder	Hermetics				Service Rating	Total Contacts	Contact Size												
					Crimp	Class H	Class Y	TV*			23 HD	22D	22M	22	20	16	12	12 (Coax)	10 (Power)	8 (Coax)	8†† (Twinax)		
	JT II	LJT I	TV III	III																			
			7-D2						M	2		2											
			7-D3						M	3		3											
			7-D4						M	4		4											
8-2■				P					M	2												2	
8-3■				X	NA	P	P		M	3												3	
	9-3■			X					M	3													
		9-5★■							Grounded	1													1
8-6				X	X	P	P		M	6													
	9-6			X	X	P	P		M	6				6									
	9-7■			X					M	7				7									
		9-9■							N	9	9												
	9-22■			X					I	2												2	
8-35					X	P	P		M	6													
	9-35	9-35	A35		X	P	P	P	M	6			6										
8-44					X	P	P		M	4													
	9-44				X				M	4												4	
		9-94■			◆				M	2												2	
8-97■				X					M	4												2	
8-98				S	X	P	P		I	3												3	
	9-98	9-98	A98	X	X	P	P	P	I	3													
	11-2★	11-2★	B2		X	P**			I	2												2	
10-4					3				I	4												4	
	11-4	11-4		X	S/2				I	4													
10-5				X	X	P	P		I	5												5	
	11-5	11-5	B5	X	X			P	I	5													
	11-6■			S					I	6												6	
10-13				X	X	P/S	P/S		M	13													
	11-13			X	X	P/S	P/S		M	13													
		11-19■							N	19	19												
10-35					X	P/S	P/S		M	13													
	11-35	11-35	B35		X	P/S	P/S	P	M	13													
		11-54■			X	◆			II	4												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	6													
10-99					X	P	P		I	7												7	
	11-99	11-99	B99		P	X		P	I	7													
12-3				X	X	◆	P	P	II	3												3	
	13-3■				P				II	3													
12-4				X	X	P	P		I	4												4	
	13-4★	13-4★	C4	X	X	P	P	P	I	4													
12-8				X	X	P	P		I	8												8	
	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													
	13-22			X	X	P/S	P/S		M	22													
		13-26■			2				M	8													6
		13-32■							N	32	32												
12-35					X	P/S	P/S		M	22													
	13-35	13-35	C35		X	P/S	P/S	P	M	22													
		13-63■			◆				I	4												2	2
12-98				X	X	P/S	P/S		I	10													
	13-98	13-98	C98	X	X	P/S	P/S	P	I	10													
14-4■					2				I	4													
	15-4■	15-4■			2	◆			I	4													4
14-5				X	X	P	P		II	5													
	15-5★	15-5★	D5	X	X	P	P	P	II	5													

- 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 43 & 44).
- † 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 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 JT/LJT Solder	Crimp	Hermetics			Service Rating	Total Contacts	Contact Size											
JT II	LJT I	TV III	III			Class H	Class Y	TV*			23 HD	22D	22M	22	20	16	12	12 (Coax)	10 (Power)	8 (Coax)	8†† (Twinax)	
14-15				X	X	P	P		I	15					14	1						
	15-15	15-15	D15	X	X	P/S	P/S	P	I	15					14	1						
14-18				X	X	P/S	P/S															
	15-18	15-18	D18	X	X	P/S	P/S	P	I	18					18							
14-19■				X	X																	
	15-19	15-19	D19		X	P	P	P	I	19					19							
14-35					X	P	P															
	15-35	15-35	D35		X	P/S	P/S	P	M	37		37										
14-37				X	X	P	P		M	37			37									
	15-37			X	X	P	P		M	37			37									
		15-55■							N	55	55											
14-68■					2	P	P															
	15-68■			X	3				1	8						8						
14-97■					X	P	P															
	15-97	15-97	D97	X	X	P	P	P	I	12				8	4							
	17-2	17-2	E2		X	◆			M	39		38										1
16-6					X	P	P										6					
	17-6	17-6	E6		X	P	P	P	I	6												
16-8				X	X	P	P															
	17-8★	17-8★	E8	X	X	P/S	P/S	P	II	8					8							
16-13■					2																	
	17-13■				2				I	13					13							
	17-22■	17-22★■			◆				Coax	4							2		2			
	17-25■				2				M	24		22								2		
16-26				X	X	P/S	P/S															
	17-26	17-26	E26	X	X	P/S	P/S	P	I	26				26								
16-35					X	P	P															
	17-35	17-35	E35	X	X	P	P	P	M	55		55										
16-42					X																	
	17-42■				P				M	42			42									
		17-52■			X	◆			M	2												2
16-55				X	X	P/S	P/S															
	17-55			X	X	P/S	P/S		M	55			55									
		17-60■			X				I/Coax	10		8								2		
		17-73■							N	73	73											
16-99				X	X	P	P															
	17-99	17-99	E99	X	X	P	P		I	23				21	2							
		19-AD■			X	◆			Inst.	17				16								1
18-11				X	X	P	P															
	19-11★	19-11★	F11	X	X	P	P	P	II	11					11							
	19-18	19-18	F18		2	2			M	18		14										4
18-28				X	X																	
	19-28■	19-28	F28	X	P	X			I	28				26	2							
18-30				X	X																	
	19-30■			X	P				I	30				29	1							
		19-31■			X				M	15		12				1				2		
18-32				X	X	P/S	P/S															
	19-32	19-32	F32	X	X	P/S	P/S	P	I	32				32								
18-35					X	P	P															
	19-35	19-35	F35		X	P	P	P	M	66		66										
18-53				X	X																	
	19-53■				P				M	53			53									
18-66				X	X	P	P															
	19-66				X	P	P		M	66			66									
	19-67■			X	3	S	S		M	67			67									
18-68■					2																	
	19-68■	19-68			3	S			I	18					18							
18-96■					2												9					
		19-88■							N	88	88											
20-1					X	P	P															
	21-1				X	P/S	P/S		M	79			79									

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

HIGH SPEED

- Fiber Optics
- Contacts
- Connectors
- Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class 1

Back-
Shells

Options
Others

- 38999
- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB
- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables
- EMI Filter Transient
- 26482 Matrix 2
- 83723 III Matrix | Pyle
- 26500 Pyle
- 5015 Crimp Rear Release Matrix
- 22992 Class I
- Back-Shells
- Options Others

Series	Series	Series	Military	MIL-DTL-27599 JT/LJT Solder	Crimp	Hermetics			Service Rating	Total Contacts	Contact Size											
JT II	LJT I	TV III	III			H	Y	TV*			23 HD	22D	22M	22	20	16	12	12 (Coax)	10 (Power)	8 (Coax)	8†† (Twinax)	
20-2					X			M	65					65								
20-11	21-2				X																	
20-16	21-11	21-11	G11		X			I	11								11					
	21-16	21-16	G16	X	X	P/S	P/S															
	21-25																					
	21-27			X																		
20-35		21-29			X																	
	21-35	21-35	G35		X	P	P															
20-39		21-39	G39	X	X	P	P	P														
	21-39	21-39	G39	X	X	P	P	P														
20-41		21-41	G41	X	X	P	P	P														
	21-41	21-41	G41	X	X	P/S	P/S															
	21-75	21-75	G75		2	X			N	M	4										4	(4)
	21-79	21-79			2	X															2	(5)
		21-121																				
22-1					X	P/S	P/S															
	23-1				X	P	P															
22-2				X	X	P	P															
	23-2			X	X	P	P															
	23-6	23-6			P																	6
22-14					2	♦																
	23-14	23-14			2	♦																14
22-21				X	X	P	P															
	23-21	23-21	H21	X	X	P	P	P														21
22-32				X	X	P	P															
	23-32			X	P																	
	23-34			X																		
22-35					X	P/S	P/S															
	23-35	23-35	H35		X	P	P	P														
22-53					P																	
	23-53	23-53	H53	X	X	P/S	P/S	P														53
		23-54			X																	9 4
22-55				X	X	P	P															55
	23-55	23-55	H55		X			P														
	23-97			X																		16
	23-99			X																		11
		23-151																				151
24-1					X	P	P															
	25-1				X	P	P															
24-2					X																	
	25-2				X																	
24-4					X	P	P															
	25-4	25-4	J4		X			P														48 8
	25-7	25-7	J7		X				M	Twinax	99											2
		25-8	J8		♦					Twinax	8											8
		25-11	J11		2	♦																
		25-17			♦																	6
24-19					X	P	P															19
	25-19	25-19	J19		X			P														
	25-20	25-20	J20		2	♦																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 43 & 44).
- † 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.

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	H	Y	TV*	Service Rating	Total Contacts	23 HD	22D	22M	22	20	16	12	12 (Coax)	10 (Power)	8 (Coax)	8†† (Twinax)	8 Quadrax
24-24					X	P	P		I	24						12	12					
	25-24★	25-24★	J24		X	P	P		I	25					16	5				4		
		25-26■★			◆				I	29												
24-29					X				I	29												
	25-29★	25-29★	J29	X	X				I	29												
24-35					X	P	P		New	128		128										
	25-35	25-35	J35		X	P	P	P	M	128		128										
24-37					X				I	37												
	25-37★	25-37★	J37		X				I	37												
24-43■					3				I	43						23	20					
	25-43	25-43	J43	X	2	◆			I	43												
	25-46	25-46	J46		2	◆			I	46						40	4			2		
24-61					X		P	P	I	61						61						
	25-61	25-61	J61	X	X	P	P	P	I	61												
		25-62■★			X	◆			I	12						8						4
		25-90			◆				I	46						40	4				2	
		25-187■							N	187	187											
		25-F4■			X				M/I	66		49				13	4					

- HD designates High Density 38999 Series III insert patterns which use size 23 contacts only. Not rated over 175°C
- X Completely tooled.
- ◆ Not tooled for 02-R.
- P Pin inserts only (contact Amphenol Aerospace for socket availability).
- ★ Ground plane proprietary option available. Arrg. 9-5, 25-62 is exclusively ground plane type.
- Not Mil-Qualified.

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

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
25-16	X		M	8		6		2	
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 or larger contacts)

- 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. 43 & 44).
- † For RG 180/U and RG 195/U cables only.
- †† Size 8 Coax and Twinax are interchangeable. Note: 25L-3 and 25L-7 require longer shells.

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

HIGH SPEED

Fiber Optics

Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear Release Matrix

22992
Class 1

Back-Shell's

Options
Others

Front face of pin inserts illustrated

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

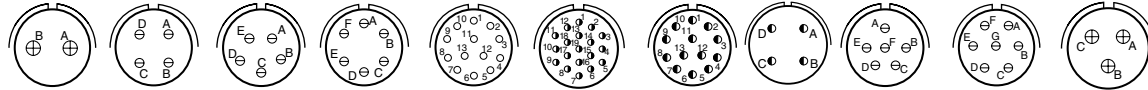
Shell Size & Insert Arrg. for:



Series II JT	8-2		8-3		8-6			8-35		8-44		8-97		8-98	
Series I LJT	9-3		9-6		9-7		9-22		9-35		9-44		9-98		
Series III TV	7-D2	7-D3	7-D4		9-5			9-9 HD		9-35		9-94		9-98	
Service Rating	M	M	M	M	M	Grounded	M	M	N	I	M	M	M	M	I
Number of Contacts	2	3	4	2	3	1	6	7	9	2	6	4	2	2	3
Contact Size	22D	22D	22D	20	20	8 Twinax	22M	22M	23	20	22D	22	20	22M	20

- HIGH SPEED
- Fiber Optics
- Contacts
- Connectors
- Cables

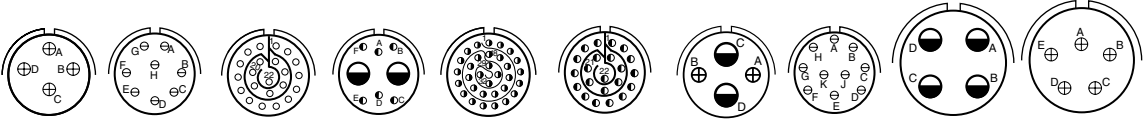
Shell Size & Insert Arrg. for:



Series II JT	10-4		10-5		10-13			10-35		10-98		10-99		12-3		
Series I LJT	11-2		11-4		11-5		11-6		11-13		11-35		11-98		11-99	
Series III TV	11-2		11-4		11-5		11-19 HD			11-35		11-54		11-98		
Service Rating	I	I	I	I	I	M	N	M	II	I	I	I	I	II		
Number of Contacts	2	4	5	6	13	19	13	4	6	7	3	16				
Contact Size	16	20	20	20	22M	23	22D	22D	20	20	16					

- EMI Filter
- Transient

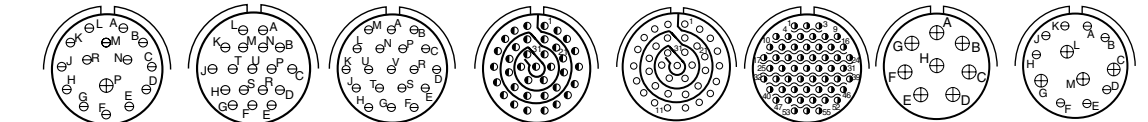
Shell Size & Insert Arrg. for:



Series II JT	12-4		12-8		12-22			12-35		12-98		14-4		14-5	
Series I LJT	13-4		13-8		13-22		13-35		13-98		15-4		15-5		
Series III TV	13-4		13-8		13-26			13-32 HD		13-35		13-63		13-98	
Service Rating	I	I	M	M	N	M	I	I	I	II					
Number of Contacts	4	8	22	6	2	32	22	2	2	10	4	5			
Contact Size	16	20	22M	22D	12	23	22D	16	12	20	12	16			

- 26482
- Matrix 2

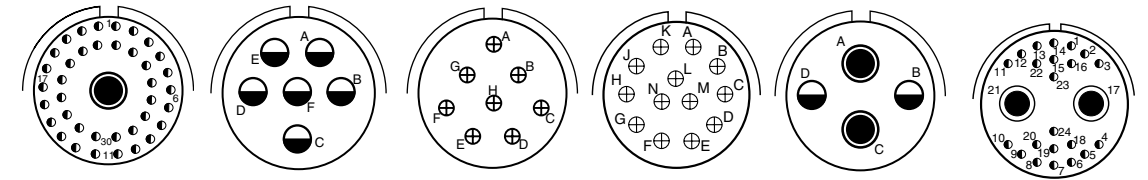
Shell Size & Insert Arrg. for:



Series II JT	14-15		14-18		14-19			14-35		14-37		14-68		14-97	
Series I LJT	15-15		15-18		15-19		15-35		15-37		15-68		15-97		
Series III TV	15-15		15-18		15-19			15-35		15-55 HD		15-97			
Service Rating	I		I	I	M	M	N	I	I						
Number of Contacts	14	1	18	19	37	37	55	8	8	4					
Contact Size	20	16	20	20	22D	22M	23	16	20	16					

- 5015
- Crimp Rear Release
- Matrix

Shell Size & Insert Arrg. for:



Series II JT	16-6		16-8			16-13			17-22		17-25	
Series I LJT	17-2		17-6			17-8			17-13		17-22	
Series III TV	17-2		17-6			17-8			17-22		17-22	
Service Rating	M		I	II	I	Coax		M				
Number of Contacts	38	1	6	8	13	2	2	22	2			
Contact Size	22D	8 Twinax	12	16	16	12 Coax	8 Coax	22D	8 Coax			

- 22992
- Class I

- Back-Shells
- Options
- Others

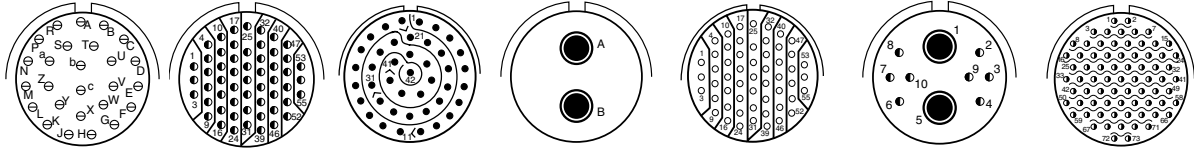


HD: High Density HD38999 (use size 23 contacts only)

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

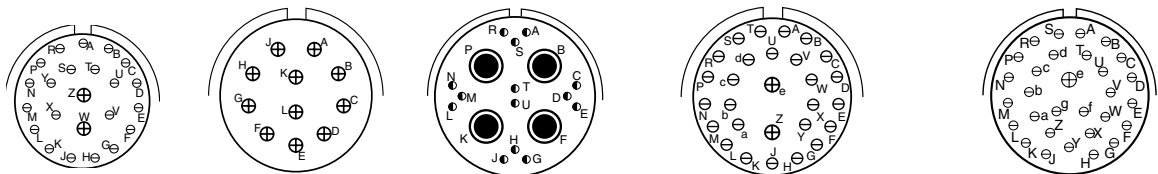
MIL-DTL-38999, Series I LJT, II JT, III TV, HD Insert Arrangements

Front face of pin inserts illustrated



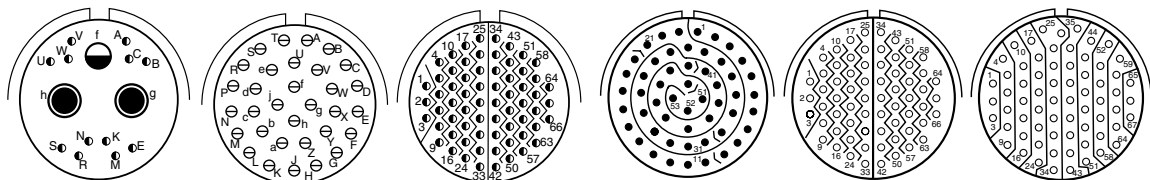
Shell Size & Insert Arrg. for:

Series I LJT	16-26	16-35	16-42		16-55			
Series II JT	17-26	17-35	17-42		17-55			
Series III TV	17-26	17-35		17-52		17-60	17-73 HD	
Service Rating	I	M	M	M	M	I/Coax	N	
Number of Contacts	26	55	42	2	55	8 2	73	
Contact Size	20	22D	22	8 Twinax	22M	22D 8 Coax	23	



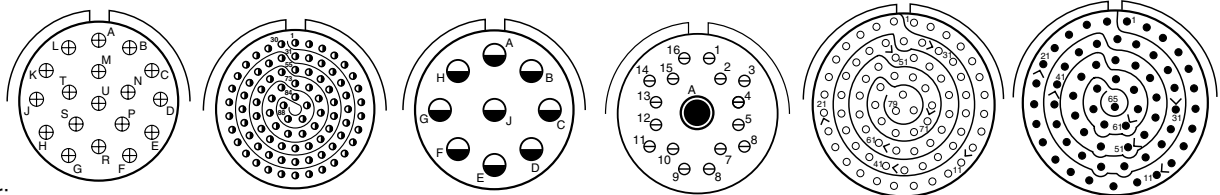
Shell Size & Insert Arrg. for:

Series II JT	16-99	18-11		18-28	18-30
Series I LJT	17-99	19-11	19-18	19-28	19-30
Series III TV	17-99	19-11	19-18	18-28	
Service Rating	I	II	M	M	I
Number of Contacts	21 2	11	14 4	26 2	29 1
Contact Size	20 16	16	22D 8 Twinax	20 16	20 16



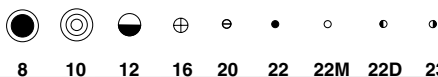
Shell Size & Insert Arrg. for:

Series II JT	18-32	18-35	18-53	18-66	
Series I LJT	19-32	19-35	19-53	19-66	19-67
Series III TV	19-31	19-32	19-35		
Service Rating	M	1	M	M	M
Number of Contacts	2 1 12	32	66	53	66 67
Contact Size	8 Coax 12 22D	20	22D	22	22M 22M



Shell Size & Insert Arrg. for:

Series II JT	18-68	18-96		20-1	20-2
Series I LJT	19-68			21-1	21-2
Series III TV		19-88 HD		19-AD	
Service Rating	I	N	I	Inst.	M
Number of Contacts	18	88	9	16 1	79
Contact Size	16	23	12	20 8 Twinax	22M
					22



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

38999

- III
- HD
- Dualoc
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

HIGH SPEED

- Fiber Optics
- Contacts
- Connectors
- Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class I

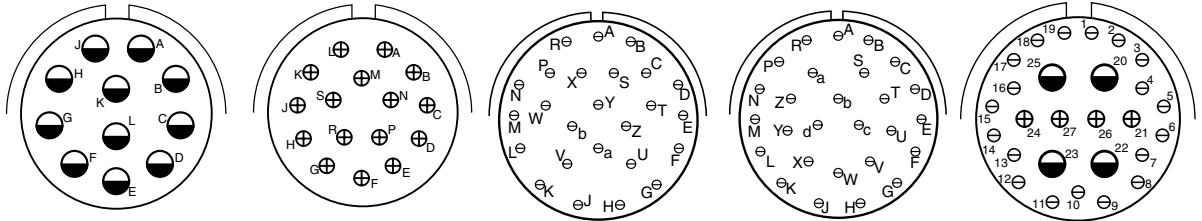
Back-Shells

Options Others

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

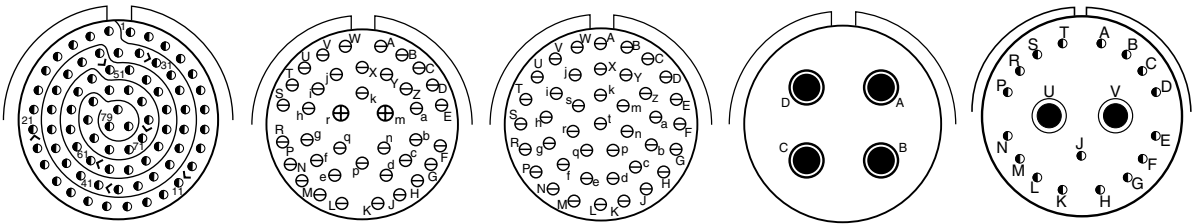
38999

Front face of pin inserts illustrated



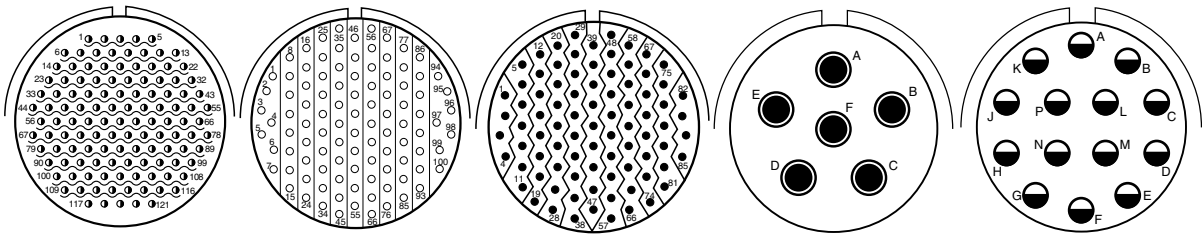
Shell Size & Insert Arrg. for:

Series II JT	20-11	20-16			
Series I LJT	21-11	21-16	21-25	21-27	21-29
Series III TV	21-11	21-16			
Service Rating	I	II	I	I	I
Number of Contacts	11	16	25	27	19 4 4
Contact Size	12	16	20	20	20 16 12



Shell Size & Insert Arrg. for:

Series II JT	20-35	20-39	20-41		
Series I LJT	21-35	21-39	21-41	21-75	21-79
Series III TV	21-35	21-39	21-41	21-75	21-79
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

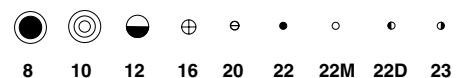


Shell Size & Insert Arrg. for:

Series II JT	22-1	22-2		22-14
Series I LJT	23-1	23-2	23-6	23-14
Series III TV	21-121 HD		23-6	
Service Rating	N	M	M	I
Number of Contacts	121	100	85	6 14
Contact Size	23	22M	22	8 Twinax 12

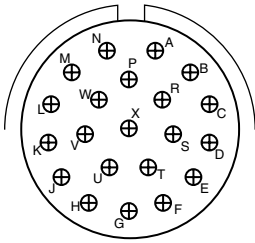
HD: High Density HD38999 (use size 23 contacts only)

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.



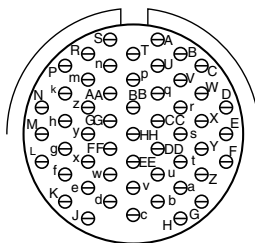
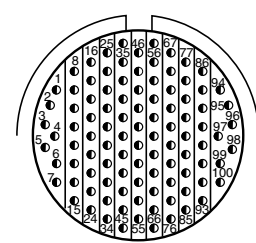
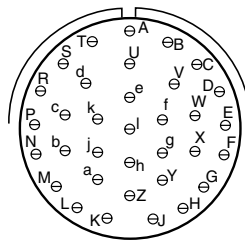
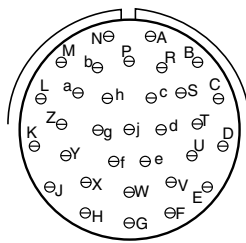
CONTACT LEGEND

Front face of pin inserts illustrated



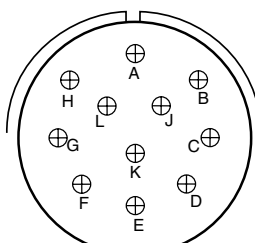
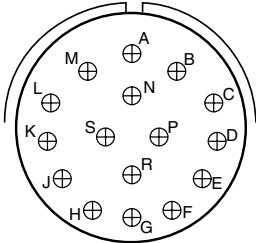
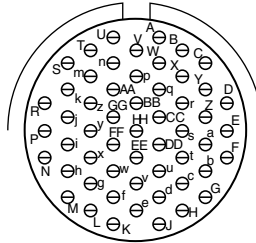
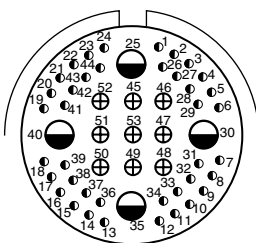
Shell Size & Insert Arrg. for:

Series II JT	22-21	22-32	22-35
Series I LJT	23-21	23-32	23-35
Series III TV	23-21		23-35
Service Rating	II	I	M
Number of Contacts	21	32	100
Contact Size	16	20	22D



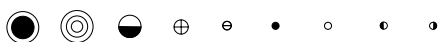
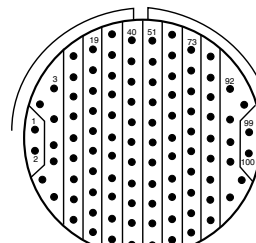
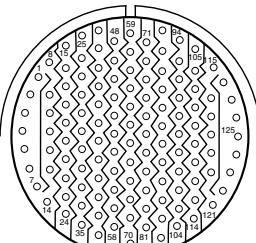
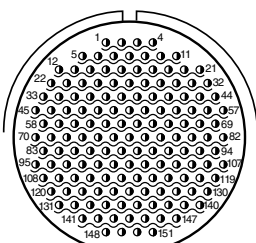
Shell Size & Insert Arrg. for:

Series II JT	22-53	22-55	
Series I LJT	23-53	23-55	23-97
Series III TV	23-53	23-54	23-55
Service Rating	I	M	II
Number of Contacts	53	40 9 4	16
Contact Size	20	22D 16 12	16



Shell Size & Insert Arrg. for:

Series II JT		24-1	24-2
Series I LJT	23-99	25-1	25-2
Series III TV		23-151 HD	
Service Rating	II	N	M
Number of Contacts	11	151	100
Contact Size	16	23	22



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

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

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class I

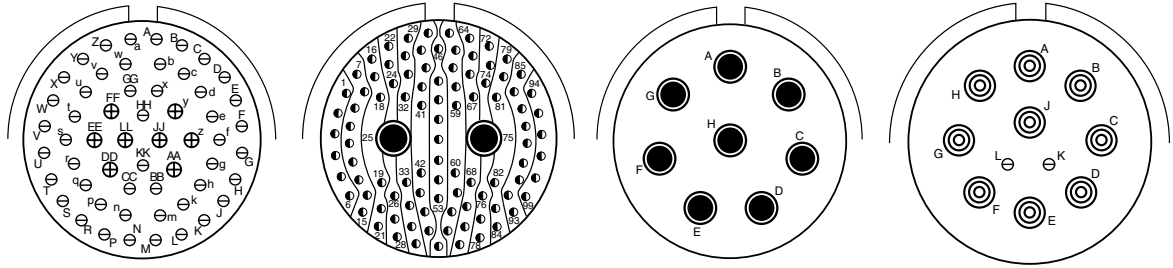
Back-Shells

Options Others

38999

Front face of pin inserts illustrated

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB



Shell Size & Insert Arrg. for:

Series	24-4	25-7	25-8	25-11***
Series II JT	24-4			
Series I LJT	25-4	25-7		25-11
Series III TV	25-4	25-7	25-8	25-11***
Service Rating	I	M	Twinax	N
Number of Contacts	48 8	97 2	8	2 9
Contact Size	20 16	22D 8 Twinax	8 Twinax	20 10

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter Transient

- 26482 Matrix 2

- 83723 III Matrix | Pyle

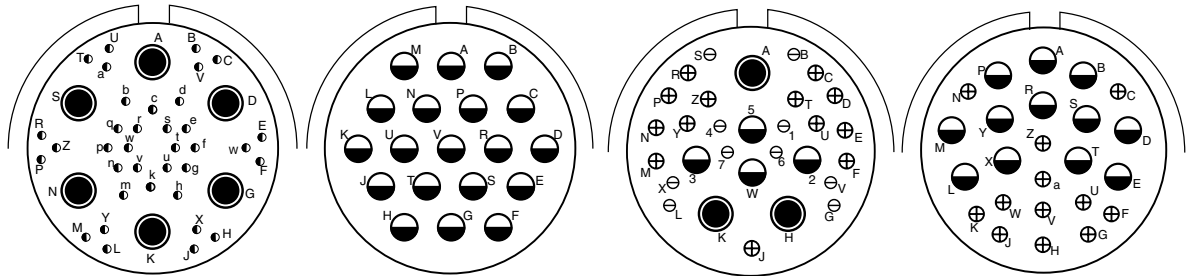
- 26500 Pyle

- 5015 Crimp Rear Release Matrix

- 22992 Class I

- Back-Shells

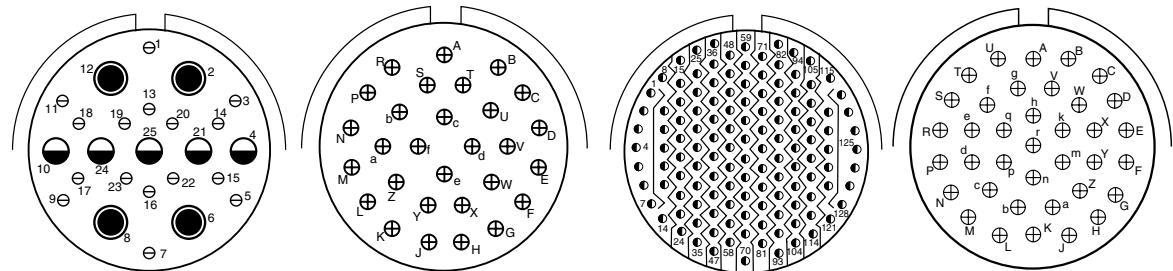
- Options Others



Shell Size & Insert Arrg. for:

Series	24-19	25-19	25-20	25-24
Series II JT	24-19			
Series I LJT	25-19	25-19	25-20	25-24
Series III TV	25-17	25-19	25-20***	25-24
Service Rating	M	I	N	I
Number of Contacts	36 6	19	10 13 3 4	12 12
Contact Size	22D 8 Twinax	12	20 16 8 Twinax 12 Coax	16 12

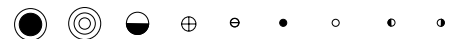
(With Matched Impedance)



Shell Size & Insert Arrg. for:

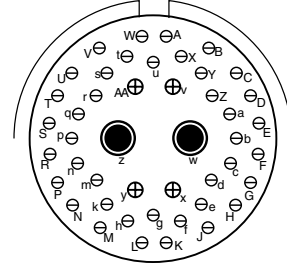
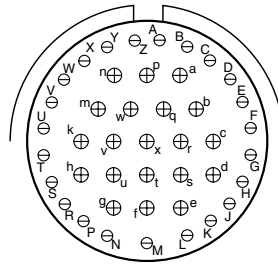
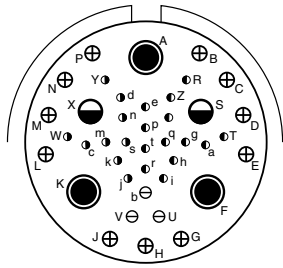
Series	24-29	25-29	24-35	24-37
Series II JT	24-29			
Series I LJT	25-29	25-29	25-35	25-37
Series III TV	25-26	25-29	25-35	25-37
Service Rating	I	I	M	I
Number of Contacts	16 5 4	29	128	37
Contact Size	20 12 8 Coax	16	22D	16

*** For use in MIL-STD-1760 applications (see pages 43 and 44).



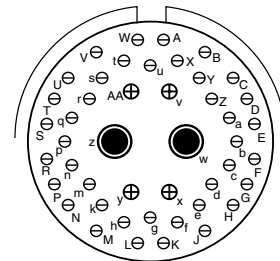
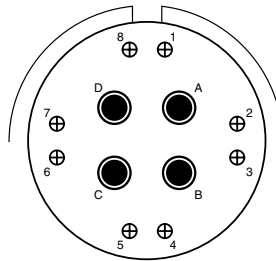
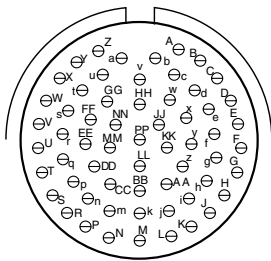
CONTACT LEGEND 8 10 12 16 20 22 22M 22D 23

Front face of pin inserts illustrated



Shell Size & Insert Arrg. for:

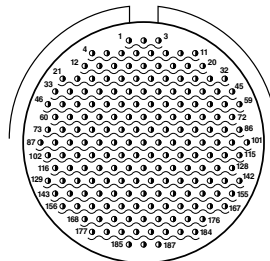
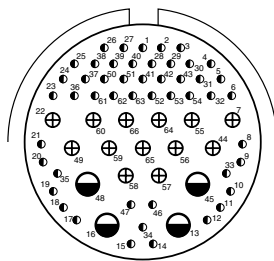
Series II JT						25-43				
Series I LJT						25-43		25-46		
Series III TV	25-41					25-43		25-46		
Service Rating	N/Inst.					I		I		
Number of Contacts	22	3	11	2	3	23	20	40	4	2
Contact Size	22D	20	16	12 Coax	8 Twinax	20	16	20	16	8 Coax †



Shell Size & Insert Arrg. for:

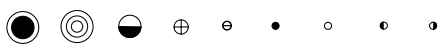
Series II JT						24-61				
Series I LJT						25-61				
Series III TV	25-61					25-62		25-90		
Service Rating	I					I		I		
Number of Contacts	61					8	4	40	4	2
Contact Size	20					16	8	20	16	8 Twinax

Ground Plane Only



Shell Size & Insert Arrg. for:

Series II JT							
Series I LJT							
Series III TV	25-F4					25-187 HD	
Service Rating	Size 22D=M, Balance =I					N	
Number of Contacts	49	13	4				187
Contact Size	22D	16	12				23



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

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

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

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class I

Back-Shells

Options Others

38999

Front face of pin inserts illustrated

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

- EMI Filter Transient

- 26482 Matrix 2

- 83723 III Matrix | Pyle

- 26500 Pyle

- 5015 Crimp Rear Release Matrix

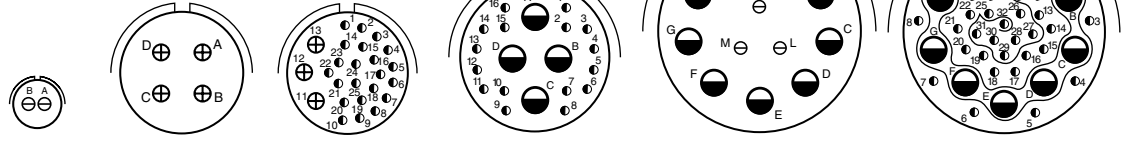
- 22992 Class I

- Back-Shells

- Options Others

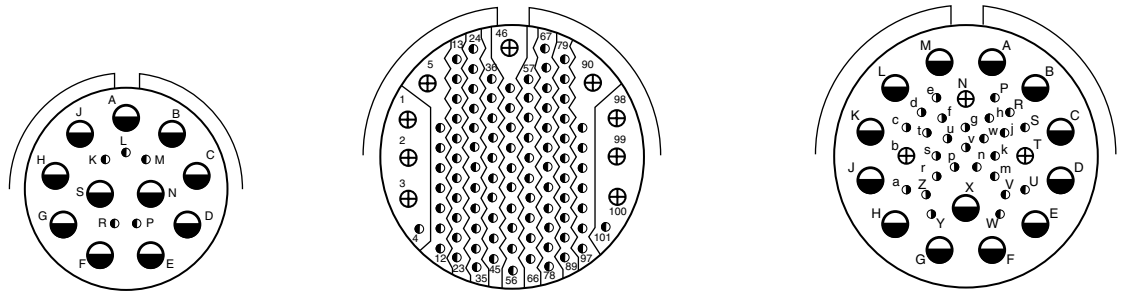
Shell Size & Insert Arrg. for:

Series III TV	9-2	15-4*	15-25	17-20	21-12	21-21
Service Rating	I	II	M	M	I	M/Inst.
Number of Contacts	2	4	22 3	16 4	3 9	32 9
Contact Size	20	16	22D 16	22D 12	20 12	22D 12



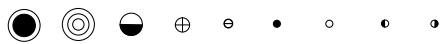
Shell Size & Insert Arrg. for:

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



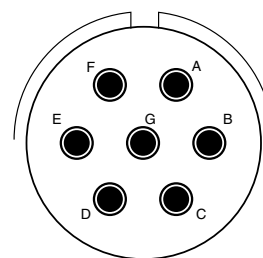
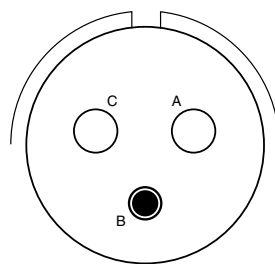
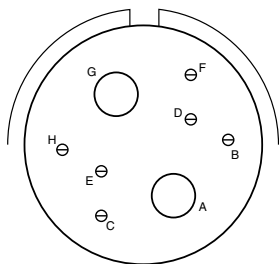
NOTE: Some specials shown here were formerly known as Pyle arrangements. Consult Amphenol for how to order information for connectors with these inserts. For further information on special arrangements consult Amphenol Aerospace, Sidney NY.

* Pyle 15-4 does not mate with Amphenol Tri-Start 15-4 insert.



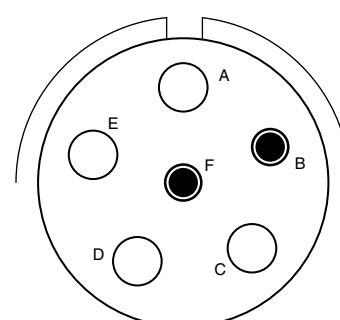
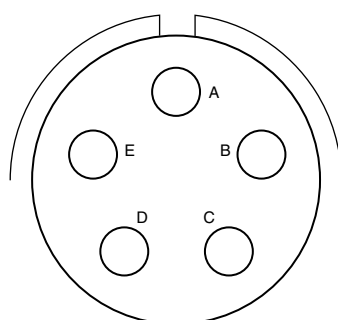
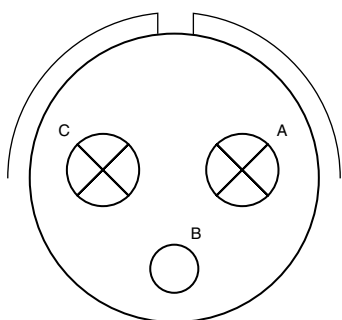
CONTACT LEGEND 8 10 12 16 20 22 22M 22D 23*

Front face of pin inserts illustrated



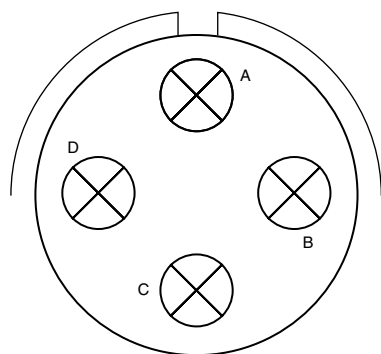
Shell Size & Insert Arrg. for:

Series III TV	25-16	25L-3	25L-7
Service Rating	M	II	II
Number of Contacts	6 2	1 2	7
Contact Size	20 4	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

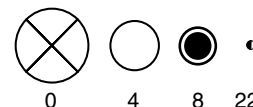


Shell Size & Insert Arrg. for:

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
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED

Fiber Optics

Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class 1

Back-Shell's

Options Others

38999

CONTACT RATING FOR TV III, HD, JT II, LJT I, SJT

Contact Size	Test Current (Amps)		Maximum Millivolt Drop Crimp*	Maximum Millivolt Drop	
	Crimp	Hermetic		Solder*	Hermetic*
23	5	3	73	20	85
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
8 (Power)	46	NA	26	NA	NA
4	80	NA	23	NA	NA
0	150	NA	21	NA	NA

Contact Size	Crimp Well Data		Solder Well Data	
	Well Diameter	Normal Well Depth	Well Diameter	Nominal Well Depth
23	.0345 ± .0010	.141	.0345 ± .0010	.130
22M	.028 ± .001	.141	.029 +.004 -.000	
22D	.0345 ± .0010	.141	.036 +.004 -.000	.094
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
8	.181 ± .002	.490	NA	NA
4	.281 ± .002	.490	NA	NA
0	.453 ± .002	.585	NA	NA

*When tested using silver plated wire.

SERVICE RATING**

Service Rating	Suggested Oper. 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.

MIL-DTL-38999 Series III STANDARD 500 CYCLE CONTACTS FOR TV AND CTV, P & S

Contact Size	TV/CTV Pins		TV/CTV Sockets	
	Military No.	Supersedes	Military No.	Supersedes
8 (Coax)*	M39029/60-367	MS27536	M39029/59-366	MS27535
8 (Power)	Contact Factory	"	"	"
8 (Twinax)	M39029/90-529**	N/A	M39029/91-530	N/A
10 (Power)	M39029/58-528	N/A	M39029/56-527	N/A
12	M39029/58-365	MS27493-12	M39029/56-353	MS27490-12
16	M39029/58-364	MS27493-16	M39029/56-352	MS27490-16
20	M39029/58-363	MS27493-20	M39029/56-351	MS27490-20
22D	M39029/58-360	MS27493-22D	M39029/56-348	MS27490-22D
4	N/A	N/A	N/A	N/A
0	N/A	N/A	N/A	N/A

MIL-DTL-38999 Series III SEALING PLUGS

Contact Size	Commercial No.	Military No.
8 (Coax)	10-482099-8	N/A
8 (Twinax)	T3-4008-59P	N/A
8 (Power)	10-405996-83	MS27488-8-3
10 (Power)	T3-4010-59P	M85049/81-10
12	10-405996-122	MS27488-12-2
16	10-405996-162	MS27488-16-2
20	10-405996-202	MS27488-20-2
22D	10-405996-222	MS27488-22-2
4	10-405996-43	MS27488-4-3
0	10-405996-03	MS27488-0-3

Above part numbers include standard 500 cycle finish designation - gold plating over suitable underplate in accordance with SAE AS39029. For other finish variations, consult Amphenol Aerospace.

*For use with RG180B/U and RG195A/U cable. For other size 8 coax or optional sizes 12 and 16 coax contacts available for use in Tri-Start connectors, see High Speed Contact section in this catalog or consult Amphenol Aerospace.

** For use with M17/M176-00002 cable.

† Optional design - see slash sheet MS39029.

For other contact options available for use in Tri-Start connectors (wire wrap, thermocouple, fiber optic), consult Amphenol.

MIL-DTL-38999 Series III 1500 CYCLE CONTACTS FOR CTV, CLASSES H & J

Contact Size	CTV Pins			CTV Sockets		
	Commercial No.	Military No.	Supersedes	Commercial No.	Military No.	Supersedes
12	10-597072-2X	M39029/107-623	-	10-597073-2X	M39029/106-617	-
16	10-597068-2X	M39029/107-622	-	10-597069-2X	M39029/106-616	-
20	10-597064-2X	M39029/107-621	-	10-597065-2X	M39029/106-615	-
22D	10-597058-3X	M39029/107-620	-	10-597061-2X	M39029/106-614	-

MIL-DTL-38999 Series II JT/ Series I LJT/SJT Series CRIMP CONTACTS

Contact Size	JT/LJT/SJT Pins MS No.	JT Socket MS No.	LJT/SJT Sockets MS No.	Contact Size	JT/LJT Pins MS No.	JT Socket MS No.	LJT/SJT Sockets MS No.
8 (Coax)*	M39029/60-367	NA	M39029/59-366	20	M39029/58-363	M39029/57-357	M39029/56-351
8 (Twinax)	M39029/90-529**	NA	M39029/91-530	22	M39029/58-362	M39029/57-356	M39029/56-350
10 (Power)	M39029/58-528	NA	M39029/56-527	22M	M39029/58-361	M39029/57-355	M39029/56-349
12	M39029/58-365	M39029/57-359	M39029/56-353	22D	M39029/58-360	M39029/57-354	M39029/56-348
16	M39029/58-364	M39029/57-358	M39029/56-352				

THERMOCOUPLE CONTACTS Series II JT/ I LJT

Contact Size	Material	JT/LJT Pins	JT Sockets	LJT Sockets
20	Chromel	10-407862-310	10-407863-310	10-407236-310
	Alumel	10-407862-320	10-407863-320	10-407865-320
	Iron	10-407862-335	10-407863-335	10-407865-335
	Constantan	10-407862-342	10-407863-342	10-407865-342

Partial Listing. If you do not see the contact for your application, consult Amphenol Aerospace.

THERMOCOUPLE CONTACTS PYLE VERSION Series II JT/ I LJT

Contact Size	Pins (II JT/I LJT)		Sockets (LJT)		Material
	Spec Number	Pyle Number	Spec Number	Pyle Number	
22D	M39029/87-472	T3-4022-10P	M39029/88-484	T3-4122-10P	CHROMEL
22D	M39029/87-471	T3-4022-10R	M39029/88-483	T3-4122-10R	ALUMEL
20	M39029/87-476	T3-4020-10P	M39029/88-488	TS-4120-10P	CHROMEL
20	M39029/87-475	T3-4020-10R	M39029/88-487	T3-4120-10R	ALUMEL
16	M39029/87-480	T3-4016-10P	M39029/88-492	T3-4116-10P	CHROMEL
16	M39029/87-479	T3-4016-10R	M39029/88-491	T3-4116-10R	ALUMEL

Above part numbers include standard finish designation - gold plating over suitable underplate in accordance with MIL-DTL-39029. For other finishes, consult Amphenol Aerospace. Note: 22M and 22D contacts are interchangeable. *For use with RG180B/U and RG195A/U cable. For other size 8 coax or optional sizes 12 and 18 coax contacts available for use in JT/LJT connectors, see High Speed Contacts section of this catalog.** For use with 17/M176-00002 cable.

SEALING PLUGS Series II JT/ I LJT

Contact Size	Commercial No.	Military No.
8 (Coax)	10-482099-8	MS27488-8
8 (Twinax)	T3-4008-59P	N/A
10 (Power)	10-576225	N/A
12	10-405996-122	MS27488-12-2
16	10-405996-162	MS27488-16-2
20	10-405996-202	MS27488-20-2
22	10-405996-222	MS27488-22-2
22M	10-405996-222	MS27488-22-2
22D	10-405996-222	MS27488-22-2

SEALING PLUGS SJT

Contact Size	Commercial No.
8 (Coax)	10-482099-8
8 (Twinax)	10-482099-8
10 (Power)	NA
12	10-405996-012 Yellow
16	10-405996-016 Blue
20	10-405996-020 Red
22	10-405996-022 Black
22M	10-405996-022 Black
22D	10-405996-022 Black

FINISH DATA MIL-DTL-38999, Tri-Start Series III TV

Aluminum Shell Components Non-Hermetic		
Finish	Service Class	
	Military	Commercial
Anodic Coating (Non-Conductive)	C	RX**
Electroless Nickel	F (Metal)	RF
	M (Composite)	
Olive Drab Cadmium Plate Nickel Base	W (Metal)	RW
	J (Composite)	
Stainless Steel with Nickel Plate (non-firewall)	L	
Stainless Steel with Nickel Plate (firewall)	S	RS
	K	RK
Stainless Steel	T	DT
Durmalon plated	Z	DZ

Hermetic Shell Components		
Material/Finish	Service Class	
	Military	Commercial
Stainless Steel	Y	Y
Stainless Steel with Nickel Plate	N	YN

**Add Suffix (005) to part number.

FINISH DATA MIL-DTL-38999, Series I LJT, II JT

Finish	Aluminum Shell Components Non-Hermetic			Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below
	Military	Commercial	Finish Plus "SR" Suffix		
Cadmium Plated Nickel Base	MS (A)	-	(SR)	JT/JTG/JTL/JTP	LJT/LJTP
Anodic Coating (Alumilite)	MS (C)	(005)	(300)	JTS/JTPS/JTLS	LJTSP/LJTS
Chromate Treated (Iridite 14-2)		(011)	(344)	JTN/JTPN/JTLN	LJTNP/LJTNP
Olive Drab Cadmium Plate Nickel Base	MS (B)	(014)	(386)		
Electroless Nickel	MS (F)	(023)	(424)		
Nickel-PTFE Durmalon		(038)			

Finish	Hermetic Connectors		Indicated Finish Standard for JT Types Listed Below	Indicated Finish Standard for LJT Types Listed Below
	Military	Commercial		
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

38999

- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts Connectors Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crmp Rear Release Matrix

22992
Class 1

Back-Shell's

Options Others

Amphenol MIL-DTL-38999, Series II, JT

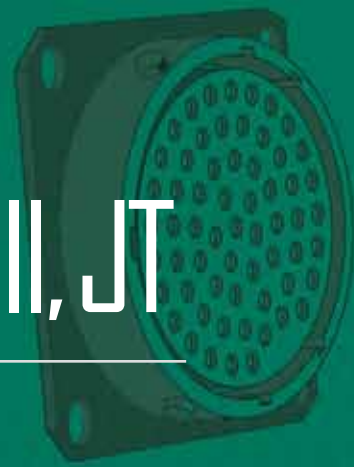


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MIL-DTL-38999 Series II Typical Markets:

- Military & Commercial Aviation
- Military Vehicles
- Missiles & Ordnance
- C4ISR



- 38999
- III
- HD
- Dualok
- II
- I
- SJT
- Accessories
- Aquacon
- Herm/Seal
- PCB

- HIGH SPEED
- Fiber Optics
- Contacts
- Connectors
- Cables

- EMI Filter
- Transient

- 26482
- Matrix 2

- 83723 III
- Matrix | Pyle

- 26500
- Pyle

- 5015
- Crimp Rear Release
- Matrix

- 22992
- Class I

- Back-Shells

- Options
- Others

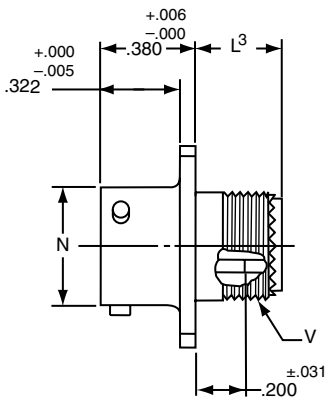
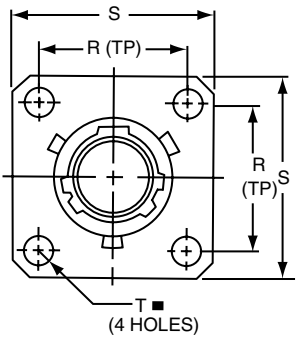
PART # Part number reference. To complete, see how to order pages 62-66.

Commercial

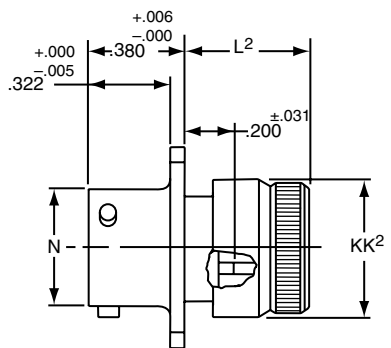
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
JT/JTS/JTN	00	RT	22-2	P	A	(XXX)

Military

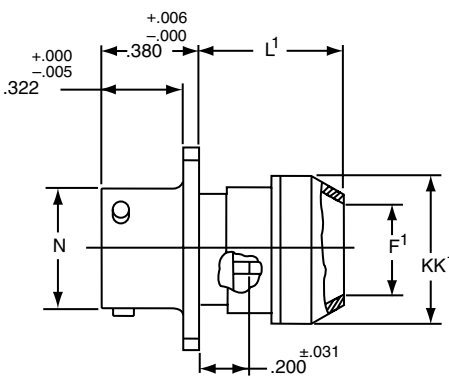
MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27472	E	14	A	18	P	A
MS27479	E	14	A	18	P	A



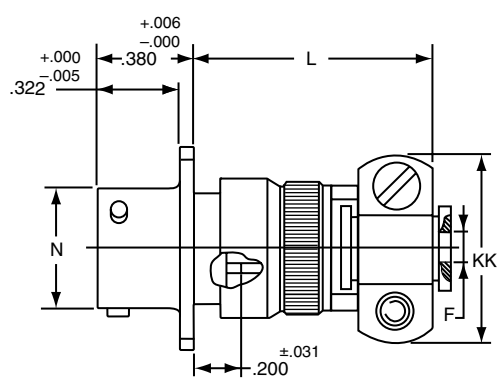
- * JT00RT-XX-XXX (MS27472T)
- ** JTS00RT-XX-XXX (MS27479T)
- *** JTN00RT-XX-XXX



- * JT00RE-XX-XXX (MS27472E)
- ** JTS00RE-XX-XXX (MS27479E)
- *** JTN00RE-XX-XXX



- * JT00RP-XX-XXX (MS27472P)
- ** JTS00RP-XX-XXX
- *** JTN00RP-XX-XXX



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

⊕ .005 DIA ⊕

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

Shell Size	F Dia. +.010 - .025	F ¹ Dia. ±.010	L Max.	L ¹ Max.	L ² Max.	L ³ Max.	N +.001 - .005	R (TP)	S ±.016	T ±.005	V Thread UNEF Class 2A (Plated)	KK Max.	KK ¹ Dia. Max.	KK ² 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.

JTPQ00R (MS27497) Series II – Crimp Wall Mounting Receptacle (Back Panel Mounting)

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix Pyle

26500
Pyle

5015
Crimp Rear Release Matrix

22992
Class 1

Back-Shell's

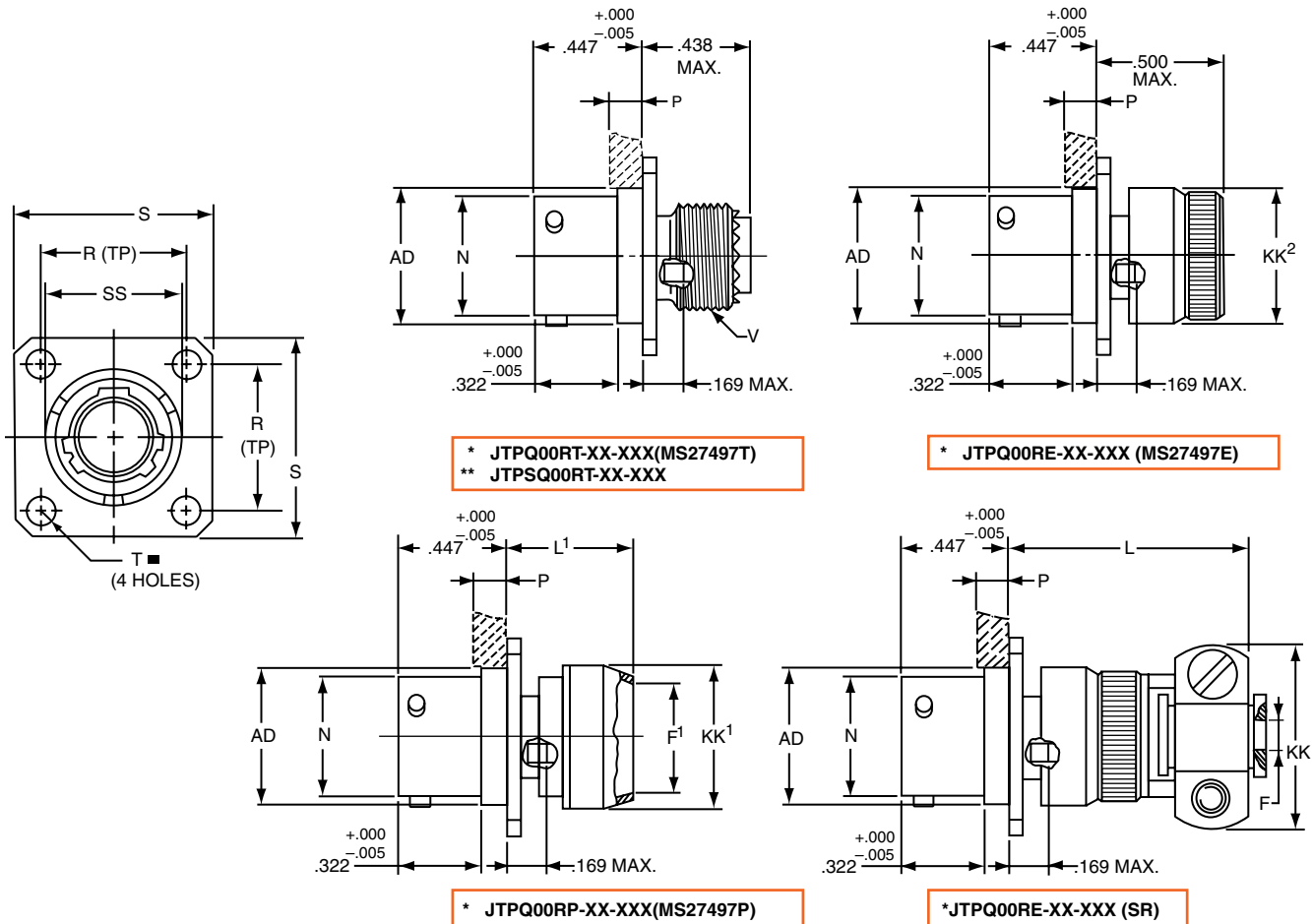
Options
Others

PART # Part number reference. To complete, see how to order pages 62-66.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
JTPQ/JTPSQ	00	RT	22-2	P	A	(XXX)

Military

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27497	E	14	A	18	P	A



* JTPQ00RT-XX-XXX(MS27497T)
** JTPSQ00RT-XX-XXX

* JTPQ00RE-XX-XXX (MS27497E)

* JTPQ00RP-XX-XXX(MS27497P)

*JTPQ00RE-XX-XXX (SR)

⊕ .005 DIA (M)

* 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

All dimensions for reference only.

38999
III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear Release Matrix

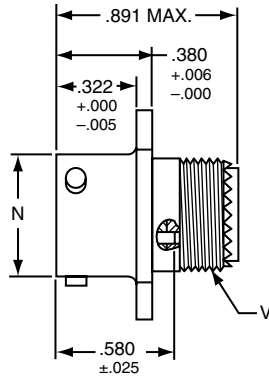
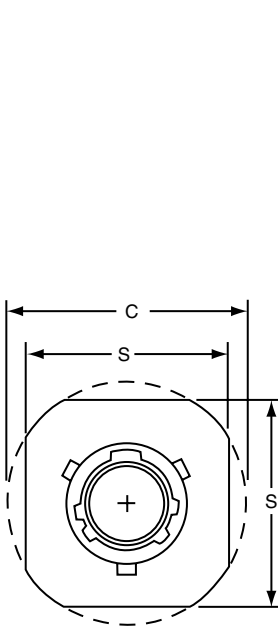
22992
Class I

Back-Shells

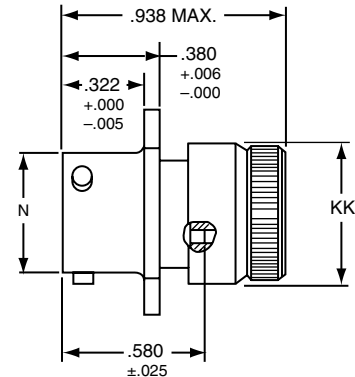
Options
Others

PART # Part number reference. To complete, see how to order pages 62-66.
Commercial

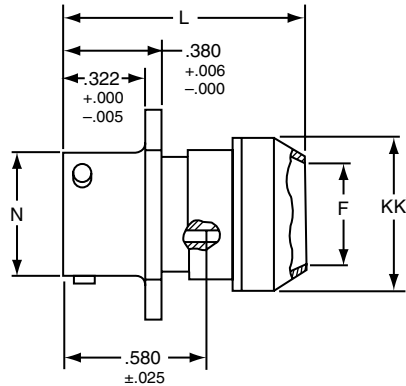
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
JT/JTS/JTN	01	RT	22-2	P	A	(XXX)



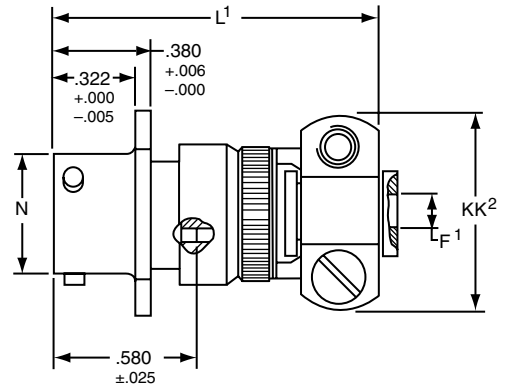
* JT01RT-XX-XXX
** JTS01RT-XX-XXX
*** JTN01RT-XX-XXX



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



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



* 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 - .025	L Max.	L¹ Max.	N Dia. +.001 - .005	S +.017 - .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.

JT02RE (MS27499) Series II – Crimp

JT02RE (053) (MS27513)

Box Mounting Receptacle

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix Pyle

26500
Pyle

5015
Crimp Rear Release Matrix

22992
Class 1

Back-
Shells

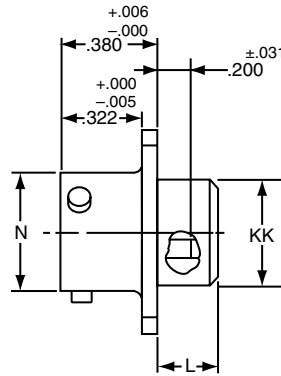
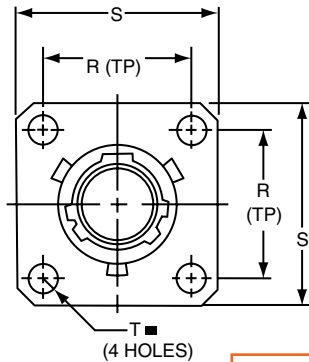
Options
Others

PART # Part number reference. To complete, see how to order pages 62-66.
Commercial

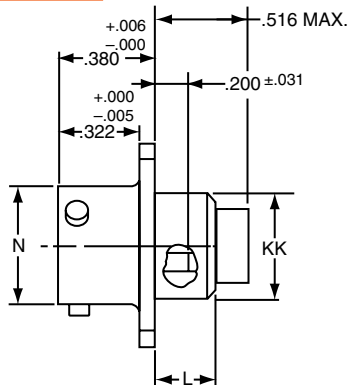
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
JT/JTS/JTN	02	RE	22-2	P	A	(XXX)

Military

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27499	E	14	A	18	P	A
MS27513	E	14	A	18	P	A



- * JT02RE-XX-XXX (MS27499)
- ** JTS02RE-XX-XXX
- *** JTN02RE-XX-XXX



- * JT02RE-XX-XXX (053) (MS27513)
- ** JTS02RE-XX-XXX (053)
- *** JTN02RE-XX-XXX (053)

■ $\text{⊕} \text{ } \overline{\text{.005 DIA}} \text{ } \text{Ⓜ}$

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

All dimensions for reference only.

NOTE: For applications requiring an environmental seal, please refer to JT00R, page 63.