Amphenol SJT MIL-DTL-38999 Type 1.5

MINIATURE CONNECTOR QUALIFIED TO JAN1003

Amphenol's SJT series of miniature MIL-DTL-38999 series II circular connectors offer high-density contact arrangements. They are environmentally-sealed and have a wide operating temperature range.

- Commonly called 38999 type 1.5
- Internationally-accepted NATO-standard connectors based on MIL-DTL-38999 design
- Qualified to JAN1003
- Meets the requirements VG96912

APPLICATIONS

- High-performance military aircraft
- Commercial airlines
- Communications equipment
- Armored personnel carriers & tanks
- Missiles
- Ships
- Medical instrumentation
- High-reliability test equipment

FEATURES

QUICK-MATING

A three-point bayonet coupling system not only makes SJT's quick-mating, but also provides an audible and tactile ''click'' along with a visual verification of mating.

SHIELDED INTERCONNECT

The SJT range can be supplied with 360-degree EMI/RFI-shielding spring protection. These springs ground the barrel of the plug to the inside wall of the receptacle with a wiping action that offers effective protection from reception or transmission of electrical noise.

MANY CONTACT LAYOUTS AND STYLES

SJT connectors come in a wide variety of contact sizes and layouts up to 128 contacts. Printed circuit board, fibre optic, thermocouple and coax style contacts are available for special applications.

UTILIZES HIGH-QUALITY MILITARY CONTACTS

The SJT range of connectors use the same crimp-style military contacts as the MIL-DTL-38999 connectors to provide reliable performance under rigorous conditions.

CORROSION-RESISTANT

SJT's are available with cadmium-over-nickel plating that passed 500-hour military salt spray corrosion tests.

TECHNICAL SPECIFICATIONS

MATERIALS AND FINISHES

Shell	Aluminum alloy
Bayonet Pins	Passivated stainless steel per QQ-S-763
Plating	(Default) - Clear chromate over cadmium over electroless nickel per QQ-P-416 014 - Olive drab chromate over cadmium over electroless nickel per QQ-P-416 023 - Electroless nickel per QQ-N-290 005 - Hard, anodic, non-conductive in accordance with MIL-A-862 W52 - Olive drab zinc cobalt
Contacts	Copper alloy
Plating	Gold-plated, 50 microinches per MIL-G-45204 type II, grade C, class I
Insulator	Hard, dielectric wafer which contains metal retention tines for high-reliability retention of crimp contacts
Grommet & Seals	Silicone-based elastomer
Grounding Springs	Beryllium copper

ELECTRICAL DATA

Operating Voltage & Test Voltage (Unmated Condition)

TEST VOLTAGES	SERVICE RATING			
	N	M	I	II
Sea Level	1000	1300	1800	2300
100,000 Feet	200	200	200	200

Current Rating by Contact Size & Wire Accommodation (Test Amps)

WIRE SIZE	22D	22MQ	22Q	20	16	12
28	1.5	1.5	-	-	-	-
26	2.0	2.0	2.0	-	-	-
24	3.0	3.0	3.0	3.0	-	-
22	5.0	-	5.0	5.0	-	-
20	-	-	-	7.5	7.5	-
18	-	-	-	-	10.0	-
16	-	-	-	-	13.0	-
14	-	-	-	-	-	17.0
12	-	-	-	-	-	23.0

Contact Resistance of Mated Contacts End-to-End

CONTACT SIZE	MAX. MILLIVOLT DROP
22D	73
22M*	45
22*	73
20	55
16	49
12	42

MECHANICAL

Operating Temperature	(Default) Plating -65°C to 150°C (-85°F to 302°F) 014 Plating -65°C to 175°C (-85°F to 347°F) 023 Plating -65°C to 200°C (-85°F to 392°F) 005 Anodic (non-conductive) -65°C to 200°C (-85°F to 392°F) W52 Plating -65°C to 175°C (-85°F to 347°F)
Sealing	Against sand, dust per MIL-STD-202 & ice resistance

Wire Sealing Range

CONTACT SIZE	MIN. INCHES	MAX. INCHES	MIN. MM	MAX. MM
22D	0.030	0.054	0.76	1.37
22M	0.030	0.050	0.76	1.27
22	0.034	0.060	0.86	1.52
20	0.040	0.083	1.02	2.11
16	0.065	0.109	1.65	2.77
12	0.097	0.142	2.46	3.61
10	0.135	0.162	3.42	4.12
8 (Coax)	0.135	0.155	3.43	3.94
8 (Twinax)	0.124	0.134	3.15	3.40

* Inactive for new designs

TECHNICAL SPECIFICATIONS

Insulation Strip Length

CONTACT SIZE	STRIP LENGTH
22*, 22D or 22M*	.125 (3.18)
20	.188 (4.77)
16	.188 (4.77)
12	.188 (4.77)

Mating Life	500 cycles minimum
Salt Spray	Finish (default): 48 hour per MIL-STD-1344A method 1001 condition B Finish 014: 500 hour per MIL-STD-1344A method 1001 condition C Finish 023: 48 hour per MIL-STD-1344A method 1001 condition B Finish 005: 500 hour per MIL-STD-1344A method 1001 condition C Finish W52: 48 hour
Heat	Finish (default): 150°C (302°F) Finish 014: 175°C (347°F) Finish 023: 200°C (392°F) Finish 005: 150°C (302°F) Finish W52: 175°C (347°F)
Chemical Resistance	Lubricating oils, hydraulic fluids, coolants, deicing fluids per MIL-STD-1344A Method 1016 condition A-1
Sine Vibration	30g at ambient temperature with simulated accessory load
Random Vibration	49.5 grms at ambient temperatures
Shock	300g ±15% half-sine wave magnitude for 3 ±1 milliseconds
EMI Shielding Effectiveness	100 MHz to 10 GHz - minimum attenuation of 50dB
Contact Type	Crimp, fibre optic, coax, twinax, or printed circuit
Number of Circuits	2 to 128
Contact Insertion	Rear-insertion/rear-extraction with simple plastic or high-quality metal hand-tools.
Contact Retention	Per MIL-DTL-38999K, tested to MIL-STD-1344A method 2007

CONTACT SIZE	AXIAL LOAD NEWTONS ±10%	AXIAL LOAD POUNDS ±10%
22*, 22D, 22M*	44	10
20	67	15
16	111	25
12	111	25

Polarization	Three-point bayonet coupling, five keyways with optional master keyway rotations, note insert and four fixed minor keyways.
Approvals	In accordance with JAN1003 and VG96912

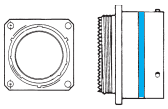
* Inactive for new designs

CREATE YOUR PART NUMBER

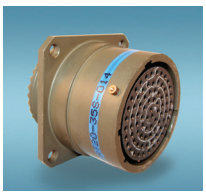
1	2	3	5	6	4	7
SJT07	RT	24-35	P	N	-014	-LC
SHELL STYLE	CLASS	LAYOUT	CONTACT	POLARIZATION	PLATING	MODIFIER

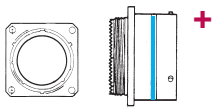
STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES ⟷ PLUGS (Mates with)

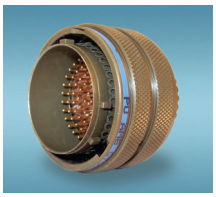


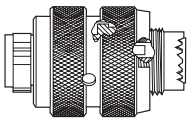
SJT00RT
Front Mount with Rear Accessory Threads.



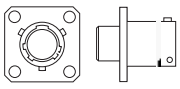


SJTP00RT
Rear Mount with Rear Accessory Threads.

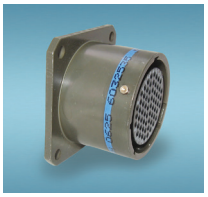


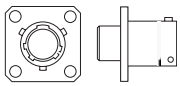


SJT06RT
Straight Plug

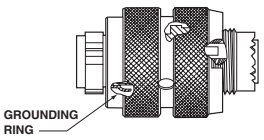


SJT02RE
Front Mount without Rear Accessory Threads.



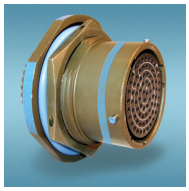


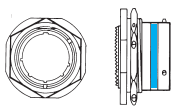
SJTP02RE
Rear Mount without Rear Accessory Threads.



SJTG06RT
Straight Plug with Grounding Fingers

Available with PC pins. Contact us for details.





SJT07RT
Jam Nut with Rear Accessory Threads.

STEP 2: SELECT CLASS

RE = No Rear Threads

RP = Potting Ring & Cup

RT = Rear Threads

CONTACT US FOR DETAILS
SJTB - Thru Bulkhead
SJT1Y - Hermetic Soder Mount
SJT07Y - Hermetic Jam Nut

STEP 3: SELECT LAYOUT

For listing by # of contacts, see pages 270-273.

Layout Number	Service Rating	CONTACTS Total Contacts	22D	22M	22	20	16	12	12 (Coax)	10 (Power)	8 (Coax)	8 (Twinax)
8-6	M	6		6								
8-35	M	6	6									
8-44	M	4			4							
8-98	I	3				3						
10-1	M	1										1**
10-2✦	I	2					2					
10-4✦	I	4				4						
10-5✦	I	5				5						
10-13	M	13		13								
10-35	M	13	13									
10-98	I	6				6						
12-4	I	4					4					
12-8	I	8				8						
12-22	M	22		22								
12-35	M	22	22									
12-98	I	10				10						
14-5	II	5					5					
14-15	I	15				14	1					
14-18	I	18				18						
14-19	I	19				19						
14-35	M	37	37									
14-37	M	37		37								
14-97✦	I	12				8	4					
16-2✦	M	39	38									1**
16-6	I	6						6				
16-8	II	8					8					
16-13✦	I	13					13					
16-26	I	26				26						
16-35	M	55	55									
16-42✦	M	42			42							
16-55	M	55		55								
16-99	I	23				21	2					
18-11	II	11					11					
18-17	M	17	10			1	4					2**
18-32	I	32				32						
18-35	M	66	66									
18-66	M	66		66								
20-1	M	79		79								
20-2	M	65			65							
20-11✦	I	11						11				
20-16	II	16					16					
20-35	M	79	79									
20-39	I	39				37	2					
20-41	I	41				41						
20-75✦	M	4									4*	
20-79✦	II	19	17									2**
22-1	M	100		100								
22-2	M	85			85							
22-21	II	21					21					
22-35	M	100	100									
22-53	I	53				53						
24-1	M	128		128								
24-2	M	100			100							
24-4	I	56				48	8					
24-7✦	M	99	97									2**
24-11✦	N	11				2				9		
24-19✦	I	19						19				
24-20✦	N	30				10	13		4◆			3**
24-24	I	24					12	12				
24-29	I	29					29					
24-35	M	128	128									
24-37✦	I	37					37					
24-43✦	I	43				23	20					
24-46✦	I	46				40	4					2**
24-61	I	61				61						

WHEN CHOOSING LAYOUT:
First Number = Step 3A – Shell Size, Dash = Step 4 – Plating, Second Number = 3B – Layout

STEP 4: SELECT PLATING

Finish	Suffix Data	Suffix Data & Strain Relief
Cadmium-plated nickel base	-	SR
Olive drab cadmium-plated nickel base	014	386
Electroless nickel	023	424
Anodic coating (Alumilite) 005	300	-
Olive drab zinc cobalt	W52	W52-SR

SR = Strain Relief

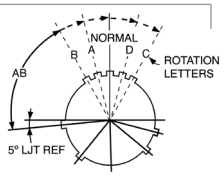
STEP 5: SELECT CONTACT

P = Pin
S = Socket
(1500-mating cycles available - contact us for details.)

Note: See Step 6 if you are not ordering contacts with part.

STEP 6: SELECT POLARIZATION

N = Normal Standard
A = Highly-Popular
B = Limited Availability
C = Check for Availability
D = Check for Availability



Mating Face of Receptacle

SHELL SIZE	N	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

STEP 7: SELECT MODIFIER

For other commercial modifications, i.e., less tools, with PC contact or with endbell, contact us.

Omit for standard contacts
LC = Less contacts, wire hole fillers and plastic insertion/extraction tool. *(Purchase Order must state "Less Contacts")*
Note: LC is not marked on part

✦ Not tooled for RP or 02RE
* Coax
** Twinax
◆ 20-24 is supplied with 2#12 coax and 2 #12 shielded contacts

HOW TO ORDER JN1003 SERIES CONNECTORS

1	2	3	4	5
JN1003A	1608	P	N	1
SHELL STYLE	LAYOUT	CONTACT	POLARIZATION	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES ← Mates with → PLUGS

JN1003A
Jam Nut Receptacle

JN1003B
Wall Mount Receptacle

JN1003H
Box Mount Receptacle

JN1003FG
Plug with Grounding Fingers

STEP 2: SELECT LAYOUT

For listing by # of contacts, see pages 270-273.

LAYOUT NUMBER	SERVICE RATING	TOTAL CONTACTS	CONTACTS									
			22D	22M	22	20	16	12	12 (COAX)	10 (POWER)	8 (COAX)	8 (TWINAX)
8-35	M	6	6									
8-98	I	3				3						
10-02✦	I	2					2					
10-35	M	13	13									
10-98	I	6				6						
12-04	I	4					4					
12-35	M	22	22									
12-98	I	10				10						
14-19	I	19				19						
14-35	M	37	37									
14-97✦	I	12				8	4					
16-06	I	6						6				
16-08	II	8					8					
16-26	I	26				26						
16-35	M	55	55									
18-11	II	11					11					
18-12	N	12				6	4					2**
18-17	M	17	10			1	4					2**
18-32	I	32				32						
18-35	M	66	66									
20-11✦	I	11						11				
20-16	II	16					16					
20-35	M	79	79									
20-41	I	41				41						
22-21	II	21					21					
22-35	M	100	100									
22-53	I	53				53						
24-04	I	56				48	8					
24-07✦	M	99	97									2**
24-19✦	I	19						19				
24-20✦	N	30				10	13		4◆			3**
24-35	M	128	128									
24-37✦	I	37					37					
24-41		41										
24-61	I	61				61	16					

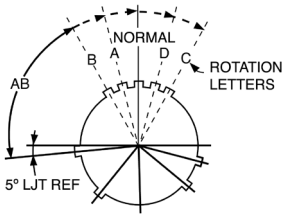
✦ Not tooled for RP or 02RE * Coax ** Twinax ◆ 20-24 is supplied with 2#12 coax and 2 #12 shielded contacts

STEP 3: SELECT CONTACT

P = Pin **S** = Socket

STEP 4: SELECT ROTATION

N = Normal Standard
A = Highly-Popluar
B = Limited Availability
C = Check for Availability
D = Check for Availability



Mating Face of Receptacle

SHELL SIZE	N	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

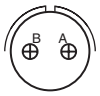
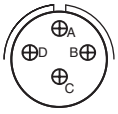
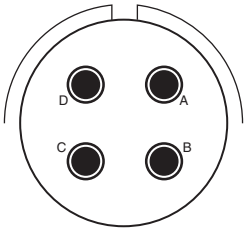
STEP 5: SELECT MODIFIER

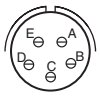
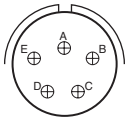
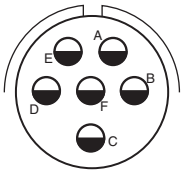
Leave blank for connector delivered without contacts **1** = Connector delivered with contacts

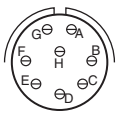
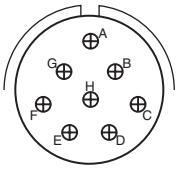
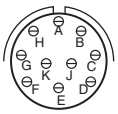
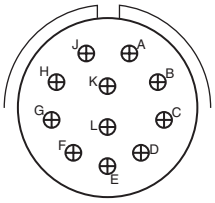
LAYOUTS BY NUMBER OF CONTACTS

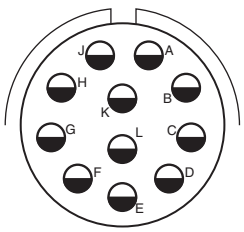
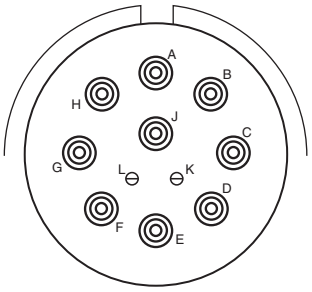
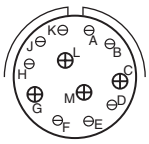
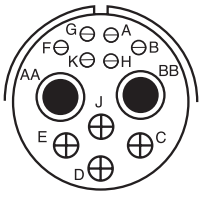
View of mating-face of pin insert

Drawing not to scale; mating face view of pin insert shown (socket view is opposite)

CONTACTS	1	2	3	4			
							
LAYOUT # OF CONTACTS SERVICE RATING	**10-1** 1-#8 ✱✱ M	**10-2** 2-#16 I	**8-98** 3-#20 I	**8-44** 4-#22 M	**10-4** 4-#20 I	**12-4** 4-#16 I	**20-75** 4-#8 ✱ N

CONTACTS	5		6			
						
LAYOUT # OF CONTACTS SERVICE RATING	**10-5** 5-#20 I	**14-5** 5-#16 II	**8-6** 6-#22M M	**8-35** 6-#22D M	**10-98** 6-#20 I	**16-6** 6-#12 I

CONTACTS	8		10	11	
					
LAYOUT # OF CONTACTS SERVICE RATING	**12-8** 8-#20 I	**16-8** 8-#16 II	**12-98** 10-#20 I	**18-11** 11-#16 II	

CONTACTS	11		12	
				
LAYOUT # OF CONTACTS SERVICE RATING	**20-11** 11-#12 I	**24-11** 2-#20, 9-#10 N	**14-97** 8-#20, 4-#16 I	**18-12** 6-#20, 4-#16, 2-#8✱✱ N

✱Coax ✱✱Twinax

LAYOUTS BY NUMBER OF CONTACTS

View of mating-face of pin insert

Drawing not to scale; mating face view of pin insert shown (socket view is opposite)

CONTACTS	13	15	16
LAYOUT # OF CONTACTS SERVICE RATING	**10-13** 13-#22M M	**10-35** 13-#22D M	**16-13** 13-#16 I	**14-15** 14-#20, 1-#16 I	**20-16** 16-#16 II

CONTACTS	17	18	19		
LAYOUT # OF CONTACTS SERVICE RATING	**18-17** 10-#22D, 1-#20, 4-#16, 2-#8** M	**14-18** 18-#20 I	**14-19** 19-#20 I	**20-79** 17-#22D, 2-#8 ** II	**24-19** 19-#12 I

CONTACTS	21	22		23
LAYOUT # OF CONTACTS SERVICE RATING	**22-21** 21-#16 II	**12-22** 22-#22M M	**12-35** 22-#22D M	**16-99** 21-#20, 2-#16 I

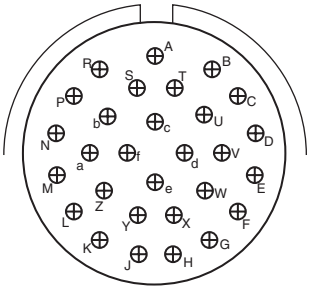
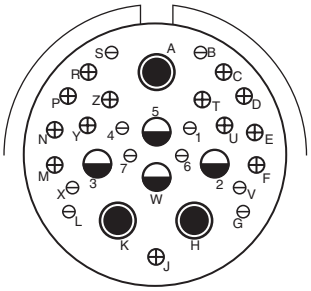
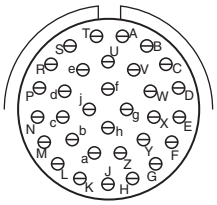
CONTACTS	24	26
LAYOUT # OF CONTACTS SERVICE RATING	**24-24** 12-#16, 12-#12 I	**16-26** 26-#20 I

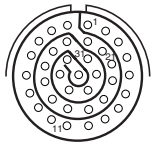
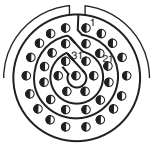
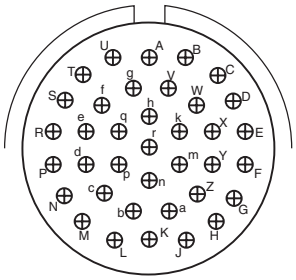
* Coax **Twinax

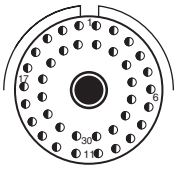
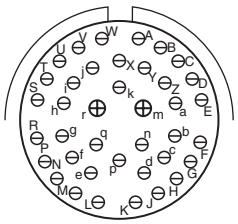
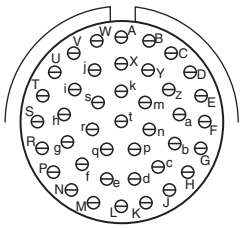
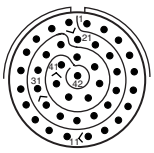
LAYOUTS BY NUMBER OF CONTACTS

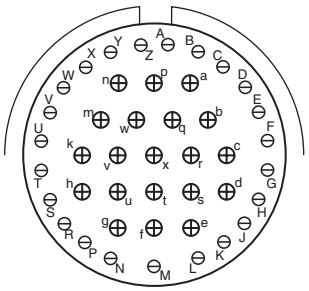
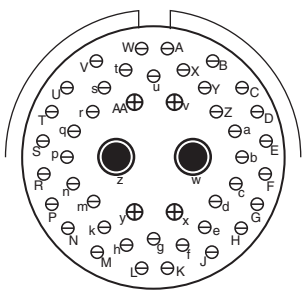
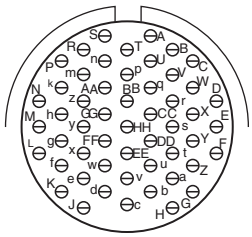
View of mating-face of pin insert

Drawing not to scale; mating face view of pin insert shown (socket view is opposite)

CONTACTS	29	30	32
			
LAYOUT # OF CONTACTS SERVICE RATING	**24-29** 29-#16 I	**24-20** 10-#20, 13-#16, 4#12◆, 3#8✱✱ I	**18-32** 32-#20 I

CONTACTS	37		
			
LAYOUT # OF CONTACTS SERVICE RATING	**14-37** 37-#22M M	**14-35** 37-#22D M	**24-37** 37-#16 I

CONTACTS	39	41	42
	 		
LAYOUT # OF CONTACTS SERVICE RATING	**16-2** 38-#22D, 1-#8✱✱ M	**20-39** 37-#20, 2-#16 I	**20-41** 41-#20 I	**16-42** 42-#22 M

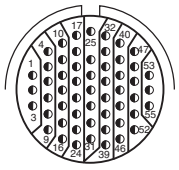
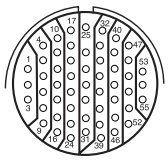
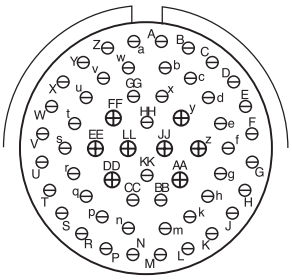
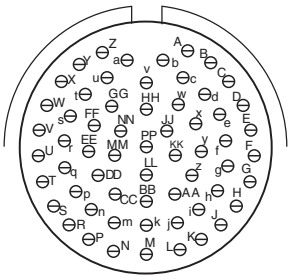
CONTACTS	43	46	53
			
LAYOUT # OF CONTACTS SERVICE RATING	**24-43** 23-#20, 20-#16 I	**24-46** 40-#20, 4-#16, 2-#8✱ I	**22-53** 53-#20 M

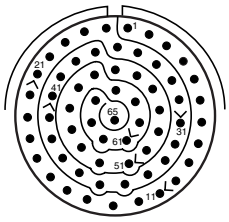
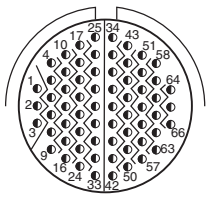
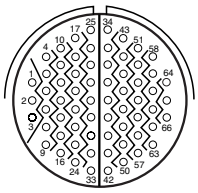
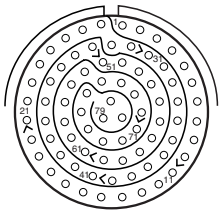
✱Coax ✱✱Twinax ◆ 20-24 is supplied with 2#12 coax and 2 #12 shielded contacts

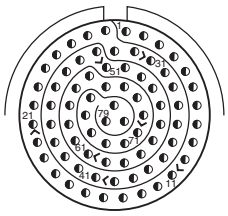
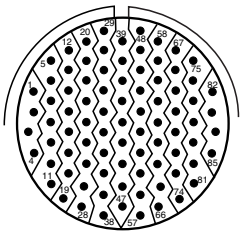
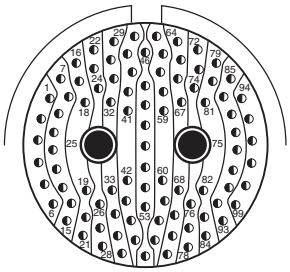
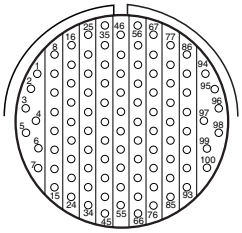
LAYOUTS BY NUMBER OF CONTACTS

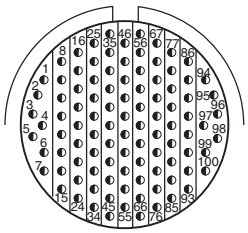
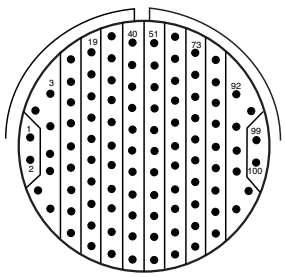
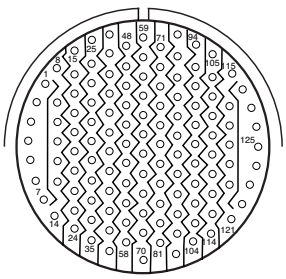
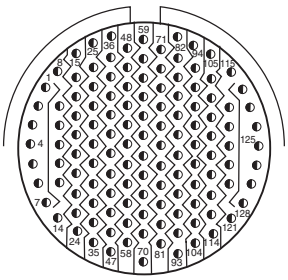
View of mating-face of pin insert

Drawing not to scale; mating face view of pin insert shown (socket view is opposite)

CONTACTS	55		56	61
				
LAYOUT # OF CONTACTS SERVICE RATING	**16-35** 55-#22D M	**16-55** 55-#22M M	**24-4** 48-#20, 8-#16 I	**24-61** 61-#20 I

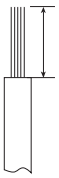
CONTACTS	65	66		79
				
LAYOUT # OF CONTACTS SERVICE RATING	**20-2** 65-#22 M	**18-35** 66-#22D M	**18-66** 66-#22M M	**20-1** 79-#22M M

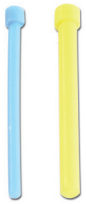
CONTACTS	79	85	99	100
				
LAYOUT # OF CONTACTS SERVICE RATING	**20-35** 79-#22D M	**22-2** 85-#22 M	**24-7** 97-#22D, 2-#8** M	**22-1** 100-#22M M

CONTACTS	100		128	
				
LAYOUT # OF CONTACTS SERVICE RATING	**22-35** 100-#22D M	**24-2** 100-#22 M	**24-1** 128-#22M M	**24-35** 128-#22D M

*Coax **Twinax

PINS



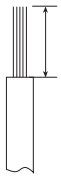


Insert head first.
Trim excess

CONTACT SIZE	WIRE SIZE AWG	PIN CONTACT PART NUMBER	COLOR BANDS			WIRE STRIP LENGTHS	WIRE RANGE		WIRE HOLE FILLER	COLOR
			1	2	3		MIN.	MAX.		
22D	28,26,24&22	M39029/58-360	Orange	Blue	Black	.125 (3.18)	.030 (0.76)	.054 (1.37)	MS27488-22-2	Black
⁎22M	28,26&24	M39029/58-361	Orange	Blue	Brown	.125 (3.18)	.030 (0.76)	.050 (1.27)	MS27488-22-2	Black
⁎22	26,24&22	M39029/58-362	Orange	Blue	Red	.125 (3.18)	.034 (0.86)	.060 (1.52)	MS27488-22-2	Black
20	20,22&24	M39029/58-363	Orange	Blue	Orange	.188 (4.77)	.040 (1.02)	.083 (2.11)	MS27488-20-2	Red
16	16,18&20	M39029/58-364	Orange	Blue	Yellow	.188 (4.77)	.065 (1.65)	.109 (2.77)	MS27488-16-2	Blue
12	12&14	M39029/58-365	Orange	Blue	Green	.188 (4.77)	.097 (2.46)	.142 (3.61)	MS27488-12-2	Yellow
8	Coax+	-	-	-	-	-	.135 (3.43)	.155 (3.94)	MS27488-8-3	-

+ For fibre optic contacts, please contact us. ⁎ Inactive for new design

SOCKETS



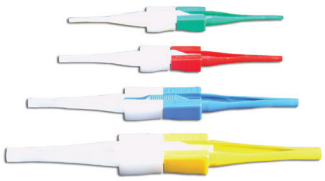
Insert head first.
Trim excess

CONTACT SIZE	WIRE SIZE AWG	PIN CONTACT PART NUMBER	COLOR BANDS			WIRE STRIP LENGTHS	WIRE RANGE		WIRE HOLE FILLER	COLOR
			1	2	3		MIN.	MAX.		
22D	28,26,24&22	M39029/56-348	Orange	Yellow	Gray	.125 (3.18)	.030 (0.76)	.054 (1.37)	MS27488-22-2	Black
20	20,22&24	M39029/56-351	Orange	Green	Brown	.188 (4.77)	.040 (1.02)	.083 (2.11)	MS27488-20-2	Red
16	16,18&20	M39029/56-352	Orange	Green	Red	.188 (4.77)	.065 (1.65)	.109 (2.77)	MS27488-16-2	Blue
12	12&14	M39029/56-353	Orange	Green	Orange	.188 (4.77)	.097 (2.46)	.142 (3.61)	MS27488-12-2	Yellow
8	Coax+	-	-	-	-	-	.135 (3.43)	.155 (3.94)	MS27488-8-3	-

+ For fibre optic contacts, please contact us.

All dimensions in inches (millimeters in parenthesis)

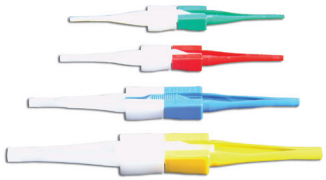
PINS



CONTACT SIZE	HAND-CRIMP TOOL	POWER-CRIMP TOOL	TURRET HEADS	USE LOCATOR COLOR	PLASTIC INSERTION/ EXTRACTION TOOL	INSERTION TIP COLOR	EXTRACTION TIP COLOR	METAL INSERTION TOOL	COLOR BAND	METAL EXTRACTION TOOL	COLOR BAND	
											1	2
22D	M22520/2-01	WA22‡‡	M22520/2-09	-	M81969/14-01	Gren	White	MS27495A22M	Black	MS27495R22M	Black	White
*22M	M22520/2-01	WA22‡‡	M22520/2-09	-	M81969/14-01	Green	White	MS27495A22M	Black	MS27495R22M	Black	White
*22	M22520/2-01	WA22‡‡	M22520/2-09	-	M81969/14-01	Green	White	MS27495A22	Black	MS27495R22M	Black	White
20	M22520/1-01	WA27F‡‡	M22520/1-04	Red	M81969/14-10	Red	Orange	MS27495A20	Red	MS27495R20	Red	White
16	M22520/1-01	WA27F‡‡	M22520/1-04	Blue	M81969/14-03	Blue	White	MS27495A16	Blue	MS27495R16	Blue	White
12	M22520/1-01	WA27F‡‡	M22520/1-04	Yellow	M81969/14-04	Yellow	White	DAK95-12B	-	DRK95-12B	-	-
8	-	-	-	-	M81969/14-06	-	Red	-	-	-	-	-

‡‡ Contact us for more tool accessories.

SOCKETS



CONTACT SIZE	HAND-CRIMP TOOL	POWER-CRIMP TOOL	TURRET HEADS	USE LOCATOR COLOR	PLASTIC INSERTION/ EXTRACTION TOOL	INSERTION TIP COLOR	EXTRACTION TIP COLOR	METAL INSERTION TOOL	COLOR BAND	METAL EXTRACTION TOOL	COLOR BAND	
											1	2
22D	M22520/2-01	WA22‡‡	M22520/2-07	-	M81969/14-01	Green	White	MS27495A22M	Black	MS27495R22M	Black	White
20	M22520/1-01	WA27F‡‡	M22520/1-04	Red	M81969/14-10	Red	Orange	MS27495A20	Red	MS27495R20	Red	White
16	M22520/1-01	WA27F‡‡	M22520/1-04	Blue	M81969/14-03	Blue	White	MS27495A16	Blue	MS27495R16	Blue	White
12	M22520/1-01	WA27F‡‡	M22520/1-04	Yellow	M81969/14-04	Yellow	White	DAK95-12B	-	DRK95-12B	-	-
8	-	-	-	-	M81969/14-06	-	Red	-	-	-	-	-

‡‡ Contact us for more tool accessories.

COAX CONTACTS

COAX PIN

COAX SOCKET

CRIMPING TOOLS

M22520/5-01

Crimp Dies

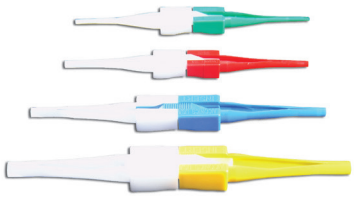
COAX CONTACT SIZE	CABLE TYPE	CONTACT PART NUMBER		CRIMPING TOOLS	
		PIN	SOCKET	INNER CONTACT	CRIMP FERRULE
16	RG-178B/U, RG-196A/U	21-033122-564 (M39029/76-425)	21-033123-564 (M39029/77-429)	M22520/2-01 w/ Positioner M22522/2-35 or w/ Daniels Positioner K532	M22520/4-01 w/ Positioner M22520/4-02
	RG-174A/U, RG-188A/U, RG-161/U, RG-187A/U, RG-316/U, RG-179B/U	21-033122-563 (M39029/76-424)	21-033123-563 (M39029/77-428)		
12		21-033122-546 (M39029/28-211)	21-033123-546 (M39029/75-416)	M22520/2-01 w/ Positioner M22520/2-34 or w/ Daniels	M22520/31-01 w/ Positioner M22520/31-02 or Daniels GS-200 Tool
	RG-180B/U, RG-195A/U	21-033122-541 (M39029/28-409)	21-033123-541 (M39029/75-417)	Positioner K323	w/ Positioner G2P330
8	RG-187A/U, RG-179B/U, RG-174A/U, RG-188A/U, RG-316/U, RG-161/U	21-033102-023	21-033101-023	M22520/2-01 w/ Positioner M22520/2-31 or Solder	M22520/5-01 w/ die set M22520/5-03 (A) or M22520/5-08 (A) M22520/5-35 (B) or M22520/10-01 w/ die set M22520/10-05 (A)
	RG-142B/U, RG-223/U	21-033102-024	21-033101-024	Solder	M22520/5-01 w/ die set M22520/5-05 (A)or M22520/5-19 (A) or M22520/10-01 w/ die set M22520/10-07 (A)
	RG-180B/U, RG-195A/U	21-033102-021 (M39029/60-367)	21-033101-021 (M39029/59-366)	M22520/2-01 w/ Positioner M22520/2-31 or Solder	M22520/5-01 w/ die set M22520/5-05 (B) or M22520/5-41 (B) or M22520/10-01 w/ die set M22520/10-07 (B)
	RG-400	21-033102-027	21-033101-027	M22520/2-01 w/ Positioner M22520/2-10	M22520/5-01 w/ die set M22520/5-45 (A)
	RG-58 (M17/155-00001)	21-033102-029	21-033101-029	Solder	M22520/5-01 w/ die set M22520/5-05 (B)

PRINTED CIRCUIT BOARD CONTACTS - PIN

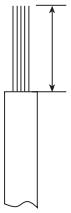
PCB PIN CONTACTS	SIZE	TAIL DIAMETER +/- .001	CONTACT STICKOUT MAX./MIN.						
			SJT00RT	SJTP00RT	SJT02RE	SJTP02RE	SJT06RE	SJT07RE	
								(9-17)	(19-25)
10-407552-015	22M	0.019	.372 / .317	.357 / .302	.576 / .521	.576 / .520	.372 / .317	.351 / .296	.329 / .279
10-407552-055	22M	0.019	.261 / .206	.246 / .191	.465 / .410	.465 / .409	.261 / .206	.240 / .185	.218 / .168
10-407552-085	22M	0.019	.097 / .047	.082 / .032	.301 / .251	.301 / .250	.097 / .047	.076 / .026	.054 / .009
10-407552-115	22M	0.019	.035 / NS	.020 / NS	.239 / .189	.239 / .188	.035 / NS	.014 / NS	NS
10-497640-015	20	0.019	.385 / .335	.370 / .320	.589 / .539	.589 / .538	.385 / .335	.364 / .314	.342 / .297
10-497640-025	20	0.019	.250 / .200	.235 / .185	.454 / .404	.454 / .403	.250 / .200	.229 / .179	.207 / .162
10-497640-045	20	0.019	NS	NS	.191 / .141	.191 / .141	NS	NS	NS
10-497596-015	20	0.025	.095 / .049	.080 / .034	.299 / .253	.299 / .252	.095 / .049	.074 / .028	.052 / .011
10-497596-025	20	0.025	.185 / .139	.170 / .124	.389 / .343	.389 / .342	.185 / .139	.164 / .118	.142 / .101
10-497596-035	20	0.025	.266 / .220	.251 / .205	.470 / .424	.470 / .423	.266 / .220	.245 / .199	.223 / .182
10-497596-055	20	0.025	.383 / .337	.368 / .322	.587 / .541	.587 / .540	.383 / .337	.362 / .316	.340 / .299
10-497695-015	16	0.040	.292 / .242	.277 / .227	.496 / .446	.496 / .445	.292 / .242	.271 / .221	.249 / .204
10-497630-035	16	0.062	.097 / .047	.082 / .032	.301 / .251	.301 / .250	.385 / .335	.076 / .026	.054 / .009
10-497630-055	16	0.062	.296 / .250	.281 / .235	.454 / .401	.454 / .401	.232 / .182	.229 / .175	.207 / .158
10-597502-015	12	0.081	.265 / .215	.250 / .200	.469 / .410	.469 / .418	.265 / .215	.244 / .194	.222 / .177

= Standard PC tail used

INSERTION/EXTRACTION TOOLS



WIRE STRIP LENGTH



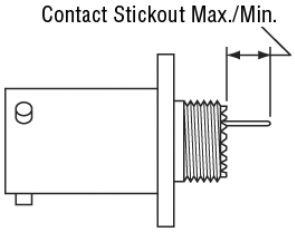
WIRE SEALING RANGE

COAX CONTACT SIZE	INSTALLATION TOOLS		WIRE STRIP LENGTHS	WIRE SEALING RANGE	
	INSERTION	REMOVAL		MIN.	MAX.
16	M81969/8-07 or M81969/14-03	M81969/8-08 or M81969/14-03	Contact us for details	.065 (1.65)	.109 (2.77)
12	M81969/8-09 or M81969/14-04	M81969/8-10 or M81969/14-04	Contact us for details	.097 (2.46)	.142 (3.61)
8	Hand-insertion	M81969/14-012 or DRK264-8 or 11-9170	Contact us for details	.135 (3.43)	.155 (3.94)

All dimensions in inches (millimeters in parenthesis)

PRINTED CIRCUIT BOARD CONTACTS - SOCKET

PCB PIN CONTACTS	SIZE	TAIL DIAMETER +/- .001	CONTACT STICKOUT MAX/MIN						
			SJT00RT	SJTP00RT	SJT02RE	SJTP02RE	SJT06RE	SJT07RE (9-17)	SJT07RE (19-25)
10-597878-011	22M	0.019	.328 / .263	.313 / .248	.532 / .467	.532 / .466	.328 / .263	.307 / .424	.285 / .225
10-597878-331	22M	0.019	.264 / .199	.249 / .188	.468 / .406	.468 / .405	.264 /.199	.243 / .182	.221 / .165
10-497623-025	22M	0.019	.905 / .840	.890 / .825	1.109 / 1.044	1.109 / 1.043	.905 / .840	.884 / .819	.862 / .802
10-497623-035	22M	0.019	.385 / .320	.370 / .305	.589 / .524	.589 / .523	.385 / .320	.364 / .299	.342 / .282
10-597878-041	22M	0.019	.245 / .180	.230 / .165	.449 / .384	.449 / .383	.245 / .180	.224 / .159	.202 / .142
10-597878-071	22M	0.019	.183 / .118	.168 / .103	.387 / .322	.387 / .321	.183 / .118	.162 / .097	.140 / .080
10-497623-145	22M	0.019	.646 / .576	.631 / .561	.850 / .780	.850 / .779	.646 / .576	.625 / .555	.603 / .538
10-597878-151	22M	0.019	.460 / .395	.445 / .380	.664 / .599	.664 / .598	.460 / .395	.439 / .374	.417 / .357
10-497643-015	20	0.019	.385 / .339	.370 / .316	.589 / .535	.589 / .536	.385 / .331	.364 / .310	.342 / .293
10-497643-025	20	0.019	.250 / .204	.235 / .181	.454 / .400	.454 / .401	.250 / .196	.229 / .175	.207 / .158
10-597878-031	20	0.019	.592 / .546	.577 / .523	.796 / .742	.796 / .743	.592 / .538	.571 / .517	.549 / .500
10-497650-015	16	0.040	.292 / .246	.277 / .223	.496 / .442	.496 / .443	.292 / .238	.271 / .217	.249 / .200
10-597503-015	12	0.081	.221 / .175	.206 / .152	.425 / .372	.425 / .372	.221 / .167	.200 / .146	.178 / .129



= Standard PC tail used

RECEPTACLES

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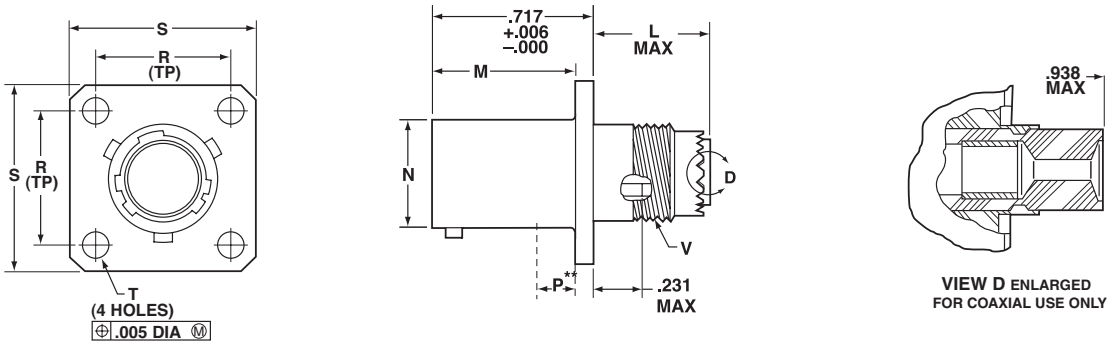
JN1003B



SHELL SIZE	L MAX. (+.000/-.010)	M +.000/-.005	R (TP) (+.040/-.040)	S +.011/-.010 (+.010/-.010)	T +.005/-.005 (PLATED UNEF)	V THREAD MODIFIED CLASS 2A MAJOR DIAMETER	V THREAD MODIFIED MODIFIED (+.000/-.010)	N +.001/ -.005	P MAX.
8	.500 (12.7)	.632 (16.05)	.594 (15.09)	.812 (20.62)	.120 (3.05)	.4375-28	.412 - .417	.473 (12.61)	.117 (2.92)
10	.500 (12.7)	.632 (16.05)	.719 (18.26)	.938 (23.82)	.120 (3.05)	.5625-24	.542 - .538	.590 (14.99)	.117 (2.92)
12	.500 (12.7)	.632 (16.05)	.812 (20.62)	1.031 (26.19)	.120 (3.05)	.6875-24	.667 - .663	.750 (19.05)	.117 (2.92)
14	.500 (12.7)	.632 (16.05)	.906 (23.01)	1.125 (28.57)	.120 (3.05)	.8125-20	.791 - .787	.875 (22.22)	.117 (2.92)
16	.500 (12.7)	.632 (16.05)	.969 (24.61)	1.219 (30.96)	.120 (3.05)	.9375-20	.916 - .912	1.000 (25.40)	.117 (2.92)
18	.500 (12.7)	.632 (16.05)	1.062 (26.97)	1.312 (33.32)	.120 (3.05)	1.0625-18	1.034 - 1.030	1.125 (28.57)	.117 (2.92)
20	.500 (12.7)	.602 (15.29)	1.156 (29.36)	1.438 (36.52)	.120 (3.05)	1.1875-18	1.158 - 1.154	1.250 (31.75)	.087 (2.21)
22	.500 (12.7)	.602 (15.29)	1.250 (31.75)	1.562 (39.67)	.120 (3.05)	1.3125-18	1.283 - 1.279	1.375 (34.92)	.087 (2.21)
24	.550 (13.97)	.602 (15.29)	1.375 (34.92)	1.688 (42.87)	.147 (3.73)	1.4375-18	1.408 - 1.404	1.500 (38.10)	.055 (1.39)

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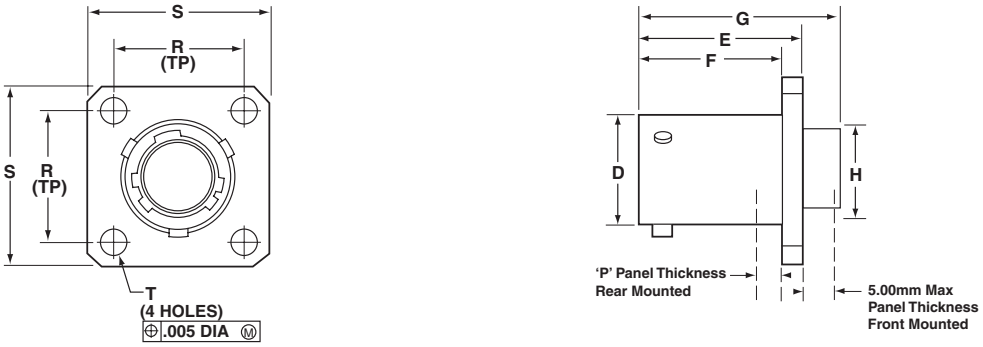

SHELL SIZE	F +.001/ -.005 (+.000/-.010)	E +.006/-.000 (+.150/-.000)	G MAX.	H MAX.	B (TP)	A +.011/-.010 (+.040/-.040)	C +.005/ -.005 (+.010/-.010)	D +.001/ -.005 (+.000/-.130)	P MAX.
8	.632 (16.05)	.717 (18.21)	1.089 (27.65)	.469 (11.91)	.594 (15.09)	.812 (20.62)	.120 (3.05)	.473 (12.00)	.117 (3.00)
10	.632 (16.05)	.717 (18.21)	1.089 (27.65)	.594 (15.09)	.719 (18.26)	.938 (23.82)	.120 (3.05)	.590 (15.00)	.117 (3.00)
12	.632 (16.05)	.717 (18.21)	1.089 (27.65)	.719 (18.26)	.812 (20.62)	1.031 (26.19)	.120 (3.05)	.750 (19.05)	.117 (3.00)
14	.632 (16.05)	.717 (18.21)	1.089 (27.65)	.844 (21.44)	.906 (23.01)	1.125 (28.57)	.120 (3.05)	.875 (22.22)	.117 (3.00)
16	.632 (16.05)	.717 (18.21)	1.089 (27.65)	.969 (24.61)	.969 (24.61)	1.219 (30.96)	.120 (3.05)	1.000 (25.4)	.117 (3.00)
18	.632 (16.05)	.717 (18.21)	1.089 (27.65)	1.078 (27.38)	1.062 (26.97)	1.312 (33.32)	.120 (3.05)	1.125 (28.57)	.117 (3.00)
20	.602 (15.29)	.717 (18.21)	1.089 (27.65)	1.203 (30.56)	1.156 (29.36)	1.438 (36.52)	.120 (3.05)	1.250 (31.75)	.117 (3.00)
22	.602 (15.29)	.717 (18.21)	1.089 (27.65)	1.329 (33.73)	1.250 (31.75)	1.562 (39.67)	.120 (3.05)	1.375 (34.92)	.117 (3.00)
24	.602 (15.29)	.717 (18.21)	1.131 (28.72)	1.453 (36.91)	1.375 (34.92)	1.688 (42.87)	.147 (3.73)	1.500 (38.10)	.055 (2.26)

All dimensions in inches (millimeters in parenthesis)

RECEPTACLES

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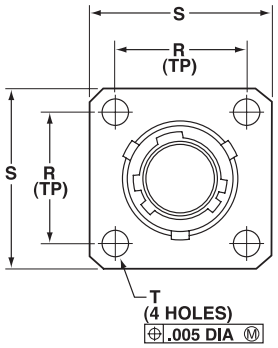

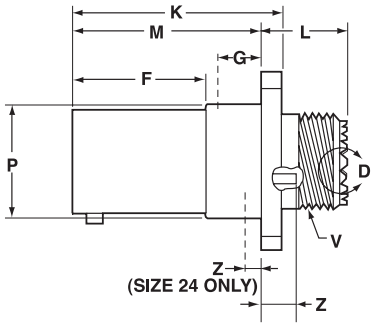

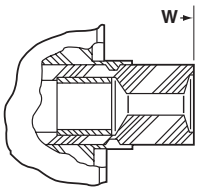

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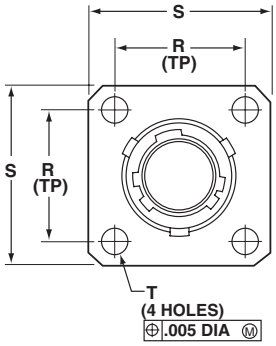
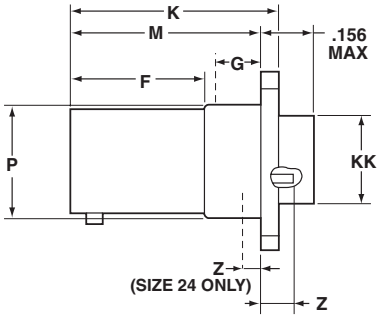
FOR COAXIAL USE ONLY

Shell Size	F +.000/ -.005 (+.000/-.010)	K +.006/-.000 (+.150/-.000)	L Max.	M +.000/-.005 (+.000/-.010)	R (TP)	S +.011/-.010 (±.04/-.04)	T +.005/-.005 (+.01/-.01)	Z +.031/ -.031 (+.07/-0.07)	V Thread Class 2A (Plated UNEF)	P Diameter +.001/ -.005 (+.00/-0.01)	W Max.	G Max.
8	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	.594 (15.09)	.812 (20.62)	.120 (3.05)	.062 (1.58)	.4375-28	.516 (13.11)	.812 (20.62)	.345 (8.76)
10	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	.719 (18.26)	.938 (23.82)	.120 (3.05)	.062 (1.58)	.5625-24	.633 (16.08)	.812 (20.62)	.345 (8.76)
12	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	.812 (20.62)	1.031 (26.19)	.120 (3.05)	.062 (1.58)	.6875-24	.802 (20.37)	.812 (20.62)	.345 (8.76)
14	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	.906 (23.01)	1.125 (28.57)	.120 (3.05)	.062 (1.58)	.8125-20	.927 (23.54)	.812 (20.62)	.345 (8.76)
16	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	.969 (24.61)	1.219 (30.96)	.120 (3.05)	.062 (1.58)	.9375-20	1.052 (26.72)	.812 (20.62)	.345 (8.76)
18	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	1.062 (26.97)	1.312 (33.32)	.120 (3.05)	.062 (1.58)	1.0625-18	1.177 (29.89)	.812 (20.62)	.345 (8.76)
20	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	1.156 (29.36)	1.438 (36.52)	.120 (3.05)	.062 (1.58)	1.1875-18	1.302. (33.07)	812 (20.62)	.345 (8.76)
22	.609 (15.47)	.945 (24.00)	.539 (13.69)	.860 (21.84)	1.250 (31.75)	1.562 (39.67)	.120 (3.05)	.062 (1.58)	1.3125-18	1.427 (36.25)	.812 (20.62)	.345 (8.76)
24	.750 (19.05)	1.085 (27.55)	.493 (11.15)	1.000 (25.4)	1.375 (34.92)	1.688 (42.87)	.147 (3.73)	.078 (1.98)	1.4375-18	1.552 (39.42)	.781 (19.84)	.452 (11.48)

SJTP02RE





Shell Size	F +.000/-.005 (+.00/-.01)	K +.006/-.000 (+.15/-.00)	M +.000/-.005 (+.00/-.04)	R (TP)	S +.011/-.010 (±.04/-.04)	T +.005/-.005 (+.01/-.01)	Z +.031/ -.031 (+.07/-.07)	P Diameter +.001/-.005 (+.00/-0.01)	KK Diameter +.005/-.002 (+0.01/-0.00)	G Max.
8	.609 (15.47)	.945 (24.00)	.860 (21.84)	.594 (15.09)	.812 (20.62)	.120 (3.05)	.062 (1.58)	.516 (13.11)	.417 (10.59)	.345 (8.76)
10	.609 (15.47)	.945 (24.00)	.860 (21.84)	.719 (18.26)	.938 (23.82)	.120 (3.05)	.062 (1.58)	.633 (16.08)	.538 (13.66)	.345 (8.76)
12	.609 (15.47)	.945 (24.00)	.860 (21.84)	.812 (20.62)	1.031 (26.19)	.120 (3.05)	.062 (1.58)	.802 (20.37)	.663 (16.84)	.345 (8.76)
14	.609 (15.47)	.945 (24.00)	.860 (21.84)	.906 (23.01)	1.125 (28.57)	.120 (3.05)	.062 (1.58)	.927 (23.54)	.787 (19.99)	.345 (8.76)
16	.609 (15.47)	.945 (24.00)	.860 (21.84)	.969 (24.61)	1.219 (30.96)	.120 (3.05)	.062 (1.58)	1.052 (26.72)	.912 (23.16)	.345 (8.76)
18	.609 (15.47)	.945 (24.00)	.860 (21.84)	1.062 (26.97)	1.312 (33.32)	.120 (3.05)	.062 (1.58)	1.177 (29.89)	1.030 (26.16)	.345 (8.76)
20	.609 (15.47)	.945 (24.00)	.860 (21.84)	1.156 (29.36)	1.438 (36.52)	.120 (3.05)	.062 (1.58)	1.302 (33.07)	1.154 (29.31)	.345 (8.76)
22	.609 (15.47)	.945 (24.00)	.860 (21.84)	1.250 (31.75)	1.562 (39.67)	.120 (3.05)	.062 (1.58)	1.427 (36.25)	1.279 (32.49)	.345 (8.76)
24	.750 (19.05)	1.085 (27.55)	1.000 (25.4)	1.375 (34.92)	1.688 (42.87)	.147 (3.73)	.078 (1.98)	1.552 (39.42)	1.404 (35.66)	.452 (11.48)

All dimensions in inches (millimeters in parenthesis)

RECEPTACLES

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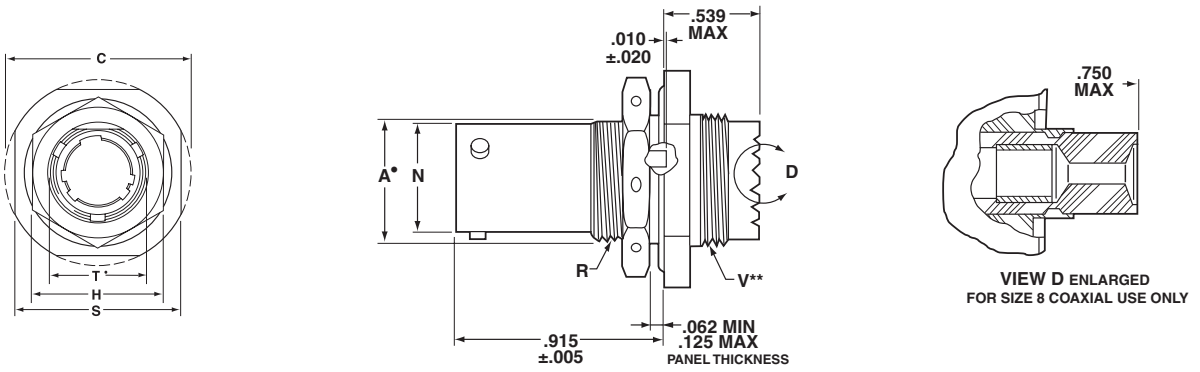
JN1003A



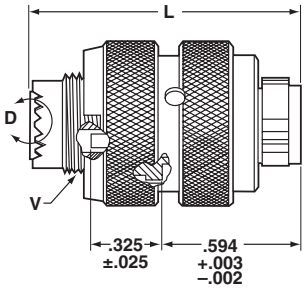
SHELL SIZE	C MAX.	A +.001/-.010 (+0.00/-0.25)	H HEX. +.017/-.016 (+0.43/-0.41)	S +.016/-.016 (+0.41/-0.41)	T +.010/-.000 (+0.25/-0.00)	V THREAD CLASS 2A (PLATED UNEF)	R THREAD CLASS 2A (PLATED UNEF)	N +.001/ -.005 (+.000/-0.01)
8	1.078 (27.38)	.542 (13.77)	.750 (19.05)	.938 (23.82)	.572 (14.52)	.5625-24	.5625-24	.473 (12.61)
10	1.203 (30.56)	.669 (16.92)	.875 (22.22)	1.062 (26.97)	.697 (17.70)	.6875-24	.6875-24	.590 (14.99)
12	1.391 (35.33)	.830 (21.08)	1.062 (26.97)	1.250 (31.75)	.884 (22.45)	.8125-20	.8750-20	.750 (19.05)
14	1.515 (38.48)	.955 (24.26)	1.188 (30.17)	1.375 (34.92)	1.007 (25.58)	.9375-20	1.0000-20	.875 (22.22)
16	1.641 (41.68)	1.084 (27.53)	1.312 (33.32)	1.500 (38.10)	1.134 (28.80)	1.0625-18	1.1250-18	1.00 (25.40)
18	1.766 (44.86)	1.208 (30.68)	1.438 (36.52)	1.625 (41.27)	1.259 (31.98)	1.1875-18	1.2500-18	1.125 (28.57)
20	1.953 (49.61)	1.333 (33.86)	1.562 (39.67)	1.812 (46.02)	1.384 (35.15)	1.3125-18	1.3750-18	1.250 (31.75)
22	2.078 (52.78)	1.459 (37.06)	1.688 (42.87)	1.938 (49.22)	1.507 (38.28)	1.4375-18	1.5000-18	1.375 (34.92)
24	2.203 (55.96)	1.580 (46.13)	1.812 (46.62)	2.062 (52.37)	1.634 (41.50)	1.4375-18	1.6250-18	1.500 (38.10)

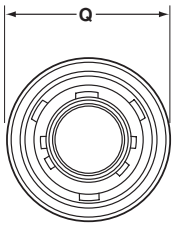
Thread sizes are SJT only, consult factory for JN1003A.

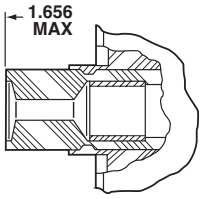
All dimensions in inches (millimeters in parenthesis)

PLUGS

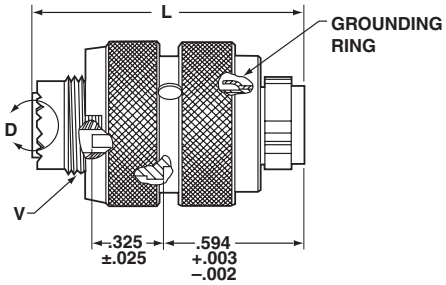
SJT06RT
SJTG06RT
JN1003FG







VIEW D ENLARGED
FOR SIZE 8 COAXIAL USE ONLY



SHELL SIZE	L MAX.	Q MAX.	V THREAD	
			CLASS 2A (PLATED UNEF)	MODIFIED MAJOR DIAMETER
8	1.219 (30.96)	.734 (18.64)	.4375-28	.412 - .417
10	1.219 (30.96)	.844 (21.44)	.5625-24	.542 - .538
12	1.219 (30.96)	1.016 (25.81)	.6875-24	.667 - .663
14	1.219 (30.96)	1.141 (28.98)	.8125-20	.791 - .787
16	1.219 (30.96)	1.265 (32.13)	.9375-20	.916 - .912
18	1.219 (30.96)	1.391 (35.33)	1.0625-18	1.034 - 1.030
20	1.219 (30.96)	1.500 (38.10)	1.1875-18	1.158 - 1.154
22	1.219 (30.96)	1.625 (41.28)	1.3125-18	1.283 - 1.279
24	1.258 (31.95)	1.750 (44.45)	1.4375-18	1.408 - 1.404

All dimensions in inches (millimeters in parenthesis)

ACCESSORIES

Cord Length
Varies by Shell Size

Cord Length
Varies by Shell Size

Chain Length
7.00 (177.80) Approx.

SJT SHELL SIZE	DUMMY RECEPTACLES	RECEPTACLE DUST CAPS			PLUG DUST CAPS	
		FOR FLANGED	FOR JAM NUT	NO CHAIN	WITH CHAIN	NO CHAIN
8	10-476807-08†	10-431918-08†	10-432984-08†	10-325943-08†	10-476810-08†	10-476801-08†
10	10-467807-10†	10-431918-10†	10-432984-10†	10-325943-10†	10-476810-10†	10-476801-10†
12	10-467807-12†	10-431918-12†	10-432984-12†	10-325943-12†	10-476810-12†	10-476801-12†
14	10-467807-14†	10-431918-14†	10-432984-14†	10-325943-14†	10-476810-14†	10-476801-14†
16	10-467807-16†	10-431918-16†	10-432984-16†	10-325943-16†	10-476810-16†	10-476801-16†
18	10-467807-18†	10-431918-18†	10-432984-18†	10-325943-18†	10-476810-18†	10-476801-18†
20	10-467807-20†	10-431918-20†	10-432984-20†	10-325943-20†	10-476810-20†	10-476801-20†
22	10-467807-22†	10-431918-22†	10-432984-22†	10-325943-22†	10-476810-22†	10-476801-22†
24	10-467807-24†	10-431918-24†	10-432984-24†	10-325943-24†	10-476810-24†	10-476801-24†

† Select code for plating

Straight

Right Angle

SJT SHELL SIZE	ENDBELLS STRAIGHT	CABLE RANGE		ENDBELLS RIGHT ANGLE	CABLE RANGE	
		MIN	MAX		MIN	MAX
08	10-476808-08†	0.125 (3.17)	0.250 (6.35)	620LA012B08**	0.98 (2.5)	.234 (5.9)
10	10-476808-10†	0.187 (4.77)	0.311 (7.92)	620LA012B10**	.153 (3.9)	.234 (5.9)
12	10-476808-12†	0.311 (7.92)	0.437 (11.12)	620LA012B12**	.190 (4.8)	.328 (8.3)
14	10-476808-14†	0.375 (9.52)	0.561 (14.27)	620LA012B14**	.260 (6.6)	.457 (11.6)
16	10-476808-16†	0.500 (12.70)	0.625 (15.89)	620LA012B16**	.283 (7.2)	.614 (15.6)
18	10-476808-18†	0.624 (15.87)	0.750 (19.05)	620LA012B18**	.325 (8.3)	.634 (16.1)
20	10-476808-20†	0.624 (15.87)	0.750 (19.05)	620LA012B20**	.343 (8.7)	.698 (17.7)
22	10-476808-22†	0.748 (19.03)	0.937 (23.82)	620LA012B22**	.381 (9.7)	.823 (20.9)
24	10-476808-24†	0.800 (20.32)	1.000 (25.54)	620LA012B24**	.418 (10.6)	.853 (21.7)

† Select code for plating

* For JN1003 Backshells, Please contact us.

** CAD OD Plated Version

FINISH	SUFFIX
Anodic coating (005)	-XX5
Cadmium plate nickel base (default)	-XX7
Olive drab, cadmium, nickel base (014)	-XX9
Electroless nickel (023)	-XXG

All dimensions in inches (millimeters in parenthesis)

ACCESSORIES

Straight

Right Angle

SJT SHELL SIZE	ENDBELLS STRAIGHT	ENDBELLS RIGHT ANGLE	CABLE RANGE	
			MIN	MAX
08	620LS048**08	620LA048**08	0.98 (2.5)	.234 (5.9)
10	620LS048**10	620LA048**10	.153 (3.9)	.234 (5.9)
12	620LS048**12	620LA048**12	.190 (4.8)	.328 (8.3)
14	620LS048**14	620LA048**14	.260 (6.6)	.457 (11.6)
16	620LS048**16	620LA048**16	.283 (7.2)	.614 (15.6)
18	620LS048**18	620LA048**18	.325 (8.3)	.634 (16.1)
20	620LS048**20	620LA048**20	.343 (8.7)	.698 (17.7)
22	620LS048**22	620LA048**22	.381 (9.7)	.823 (20.9)
24	620LS048**24	620LA048**24	.418 (10.6)	.853 (21.7)

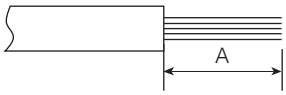
** Select code for connector plating
B = Olive Drab Chromate over Cadmium over Nickel (1000-hour Salt Spray)
C = Electroless Nickel (Fluid-resistant)

* For JN1003 Backshells, Please contact us.

ASSEMBLY INSTRUCTIONS

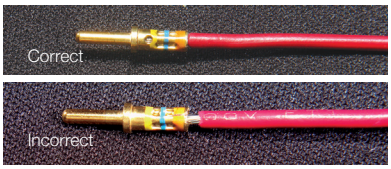
WIRE STRIPPING

Strip insulation from end of wire to be crimped. (See table for proper stripping dimensions.) Do not cut or damage wire strands.



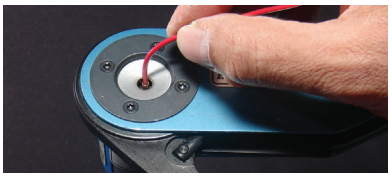
WIRE SIZE	A
22, 22M, 22D	.125 (3.18)
20	.188 (4.77)
16	.188 (4.77)
12	.188 (4.77)
10	.335 (8.51)
8 (power)	.470 (11.99)

CONTACT CRIMPING



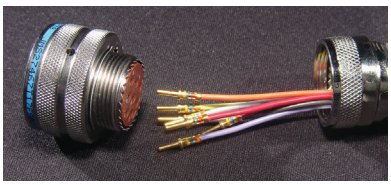
STEP 1: Insert wire into rear of contact. Wire insulation must press against rear of contact. Wire must be visible through inspection hole.

STEP 2: M22520 series crimp tool and locator is recommended. See Contact and Tool Table on ⇨ pages 274-275.or choice of turret head and selection setting according to contact size, part number and wire gauge size.

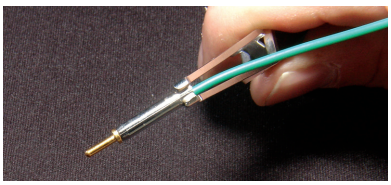


STEP 3: Insert contact and wire into tool jaws. To crimp, squeeze handles together fully until ratchet releases and allows handles to expand; otherwise, contact cannot be extracted from tool jaws. Maintain slight insertion pressure on wire while crimping contact to wire.

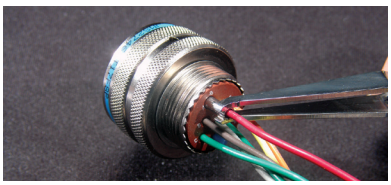
CONTACT INSERTION



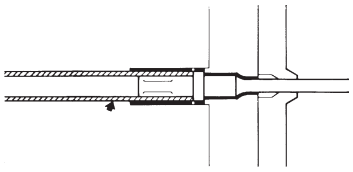
STEP 1: Remove hardware from plug or receptacle and slip over wire bundle in proper order for reassembly.



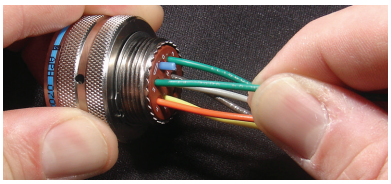
STEP 2: Using proper plastic or metal insertion tool for corresponding contact, position wire in tip of the tool so that the tool tip presses against the contact shoulder.



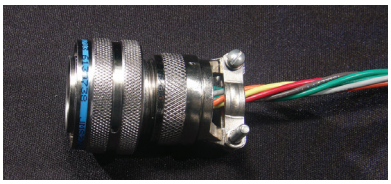
STEP 3: Press tool against contact shoulder and, with firm and even pressure, insert wired contact and tool tip into center contact cavity.



STEP 4: When contact bottoms, a slight “click” can be heard as tines of metal retaining clip snap into place behind contact shoulder.

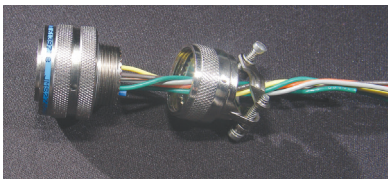


STEP 5: Remove tool and pull back lightly on wire to make sure contact is properly seated. Repeat operation with remainder of contacts to be inserted, beginning with the center cavity and working outward in alternating rows.

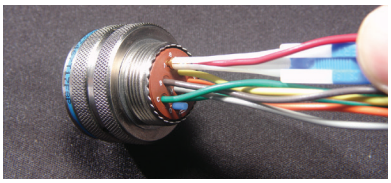


STEP 6: After all contacts are inserted, fill any empty cavities with wire sealing plugs. Reassemble plug or receptacle hardware.

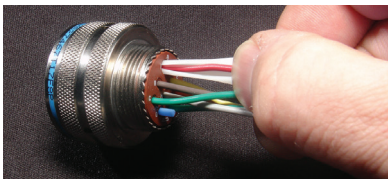
CONTACT EXTRACTION



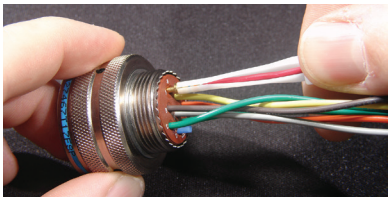
STEP 1: Remove hardware from plug or receptacle and slide hardware back along wire bundle.



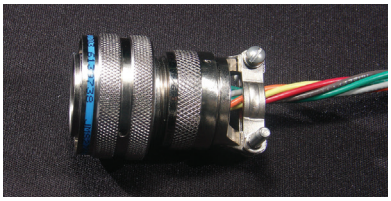
STEP 2: Using plastic or metal extraction tool with proper color code corresponding to contact size, place wire in tool.



STEP 3: Insert tool into contact cavity until tool tip bottoms against the contact shoulder, expanding clip retaining tines.



STEP 4: Hold wire firmly in tool and extract wired contact and tool. Repeat operation for all contacts to be extracted.



STEP 5: Fill any empty cavities with wire sealing plugs. Reassemble plug or receptacle hardware.

Note: LJT series shown.