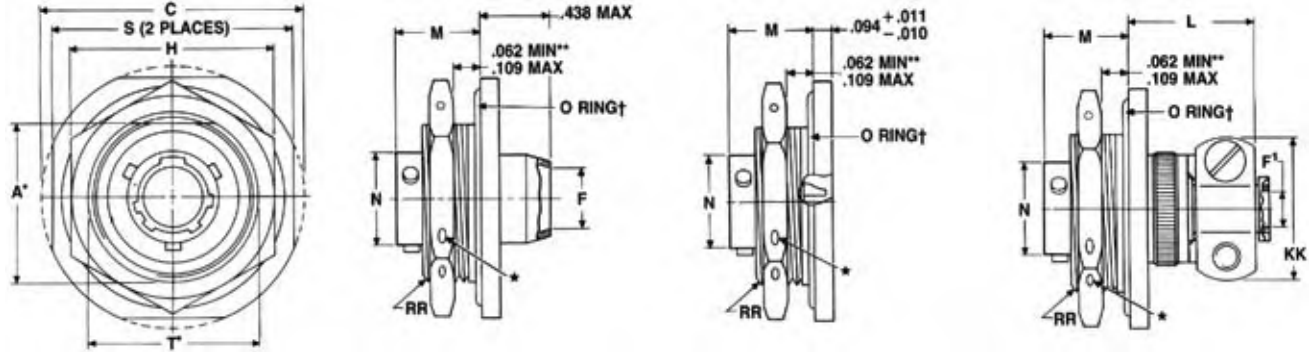


38999 III  
SJT I  
26482 Matrix 2  
83723 III Pyle Matrix  
5015 Crimp Rear Release Matrix  
26500 Pyle  
Printed Circuit Board  
EMI Filter Transient  
Fiber Optics  
High Speed Contacts  
Options Others

**PART #** Part number reference. To complete, see how to order pages 46-50.  
**Commercial**

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

**Military qualified to MIL-DTL-27599**



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

\*JT07P-XX-XXX (MS27337P)  
\*JTN07P-XX-XXX

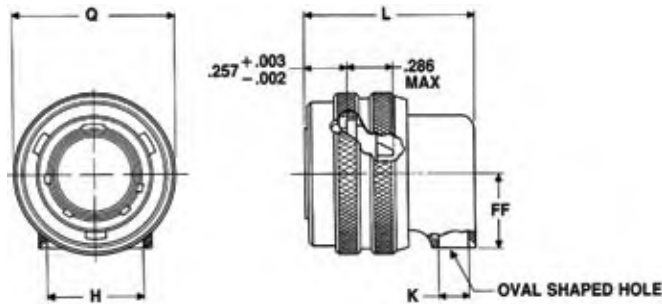
\*JT07A-XX-XXX  
\*JT07C-XX-XXX  
\*JTN07A-XX-XXX  
\*JTN07C-XX-XXX

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

Shell Size	A* +.000 -.010	C Max.	F Min.	F' +.010 -.025	H +.017 -.016	L Max.	M ±.005	N +.001 -.005	S ±.016	T* +.010 -.000	KK Max.	RR Thread Class 2A
8	.830	1.390	.312	.125	1.062	.666	.438	.473	1.250	.884	.812	.8750-20UNEF
10	.955	1.515	.429	.188	1.188	.666	.438	.590	1.375	1.007	.875	1.0000-20UNEF
12	1.084	1.640	.543	.312	1.312	.666	.438	.750	1.500	1.134	1.000	1.1250-18UNEF
14	1.208	1.765	.668	.375	1.438	.729	.438	.875	1.625	1.259	1.125	1.2500-18UNEF
16	1.333	1.953	.793	.500	1.562	.729	.438	1.000	1.781	1.384	1.188	1.3750-18UNEF
18	1.459	2.031	.894	.625	1.688	.729	.438	1.125	1.890	1.507	1.438	1.5000-18UNEF
20	1.576	2.156	1.019	.625	1.812	.765	.464	1.250	2.016	1.634	1.438	1.6250-18UNEF
22	1.701	2.280	1.144	.750	2.000	.765	.464	1.375	2.140	1.759	1.625	1.7500-18UNS
24	1.826	2.405	1.269	.800	2.125	.828	.464	1.500	2.265	1.884	1.719	1.8750-16UN

## JT08 Series II – Solder 90° Plug

**Military qualified to MIL-DTL-27599**



\*JT08P-XX-XXX  
\*JTN08P-XX-XXX

\* To complete order number see page 46.

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

All dimensions for reference only.

# Amphenol MIL-DTL-38999, Series I, LJT



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## MIL-DTL-38999 Series I Typical Markets:

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



38999

SJT I

III

26482

Matrix 2

83723 III

Matrix Pyle

5015

Crimp Rear Release Matrix

26500 Pyle

Printed Circuit Board

EMI Filter Transient

Fiber Optics

High Speed Contacts

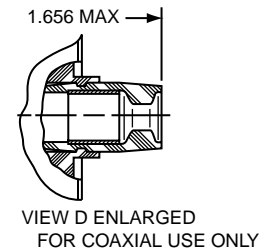
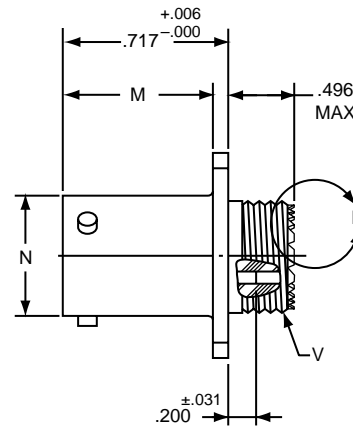
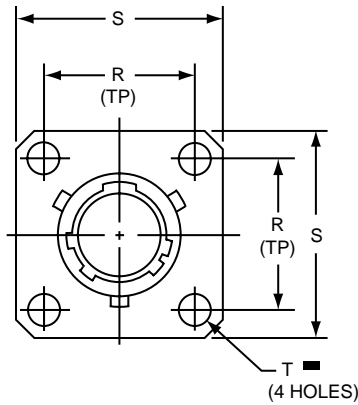
Options Others

**PART #** Part number reference. To complete, see how to order pages 46-50.

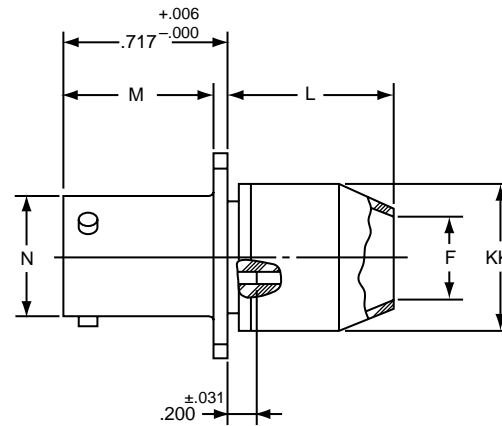
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	00	RE	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27466	E	14	A	18	P	A



LJT00RE-XX-XXX (MS27466E)  
LJT00RT-XX-XXX (MS27466T)



LJT00RP-XX-XXX (MS27466P)

⊕ .005 DIA ⊕

Shell Size	F Dia. ±.010	L Max.	M +.000 - .005	N +.001 - .005	R (TP)	S ±.016	T Dia. ±.005	V Thread Class 2A (Plated)	KK Dia. Max
9	.444	.813	.632	.572	.719	.938	.128	.4375-28 UNEF	.608
11	.558	.813	.632	.700	.812	1.031	.128	.5625-24 UNEF	.734
13	.683	.813	.632	.850	.906	1.125	.128	.6875-24 UNEF	.858
15	.808	.813	.632	.975	.969	1.219	.128	.8125-20 UNEF	.984
17	.909	.813	.632	1.100	1.062	1.312	.128	.9375-20 UNEF	1.110
19	1.034	.813	.632	1.207	1.156	1.438	.128	1.0625-18 UNEF	1.234
21	1.159	.906	.602	1.332	1.250	1.562	.128	1.1875-18 UNEF	1.360
23	1.284	.906	.602	1.457	1.375	1.688	.147	1.3125-18 UNEF	1.484
25	1.409	.906	.602	1.582	1.500	1.812	.147	1.4375-18 UNEF	1.610

All dimensions for reference only.

# LJTPQ00R (MS27656) Series I – Crimp Wall Mounting Receptacle (Back Panel Mounting)

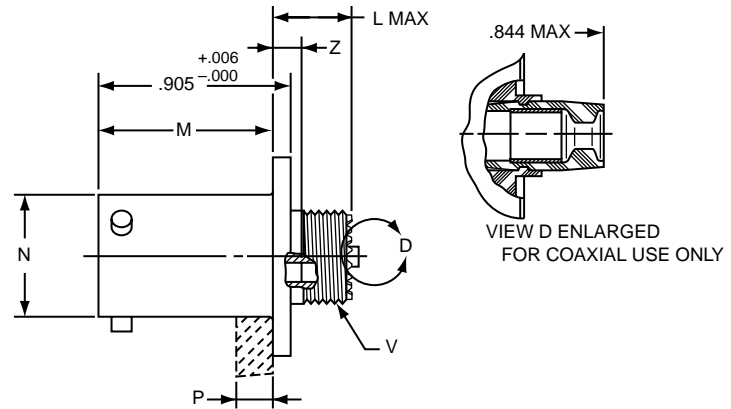
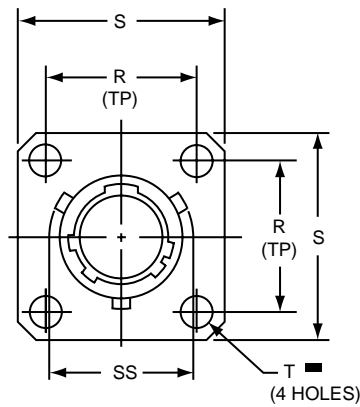


**PART #** Part number reference. To complete, see how to order pages 46-50.  
**Commercial**

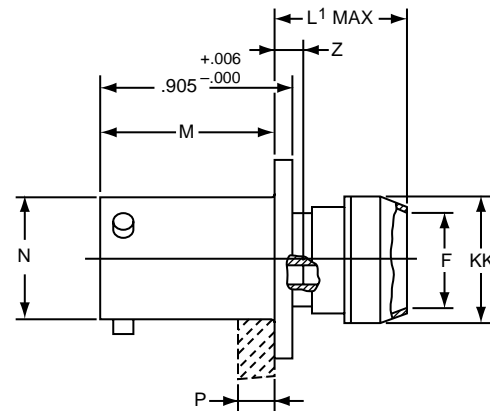
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJTPQ	00	RE	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27656	E	14	A	18	P	A



**LJTPQ00RE-XX-XXX (MS27656E)**  
**LJTPQ00RT-XX-XXX (MS27656T)**



**LJTPQ00RP-XX-XXX (MS27656P)**

⊕ .005 DIA ⊕

Shell Size	F Dia. ±.010	L Max.	L' Max.	M +.000 / -.005	N Dia.	P Max. Panel Thickness	R (TP)	S +.011 / -.010	T Dia. ±.005	V Thread Class 2A (Plated)	Z Max	KK Dia. Max	SS Dia. +.000 / -.016
9	.444	.453	.641	.820	.572	.234	.719	.938	.128	.4375-28 UNEF	.138	.625	.662
11	.558	.453	.641	.820	.700	.234	.812	1.031	.128	.5625-24 UNEF	.138	.750	.810
13	.683	.453	.641	.820	.850	.234	.906	1.125	.128	.6875-24 UNEF	.138	.875	.960
15	.808	.453	.641	.820	.975	.234	.969	1.219	.128	.8125-20 UNEF	.138	1.000	1.085
17	.909	.453	.641	.820	1.100	.234	1.062	1.312	.128	.9375-20 UNEF	.138	1.125	1.210
19	1.034	.453	.641	.820	1.207	.234	1.156	1.438	.128	1.0625-18 UNEF	.138	1.250	1.317
21	1.159	.484	.672	.790	1.332	.204	1.250	1.562	.128	1.1875-18 UNEF	.168	1.375	1.442
23	1.284	.484	.672	.790	1.457	.204	1.375	1.688	.147	1.3125-18 UNEF	.168	1.500	1.567
25	1.409	.484	.672	.790	1.582	.193	1.500	1.812	.147	1.4375-18 UNEF	.168	1.625	1.692

All dimensions for reference only.  
Note: MS27656 superseded MS 27515.

38999  
SJT

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

38999  
SJT I II III

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

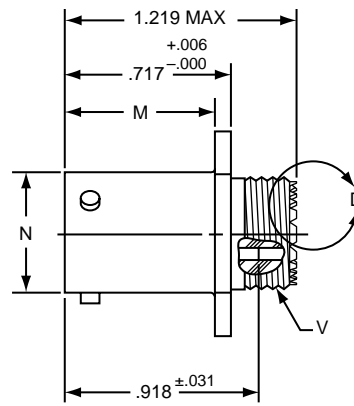
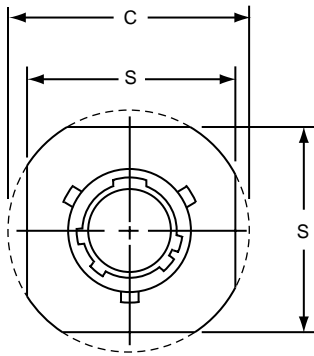
Fiber Optics

High Speed  
Contacts

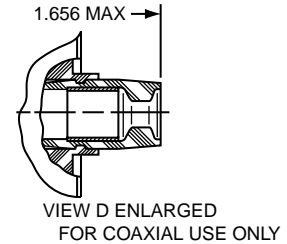
Options  
Others

**PART #** Part number reference. To complete, see how to order pages 46-50.  
**Commercial**

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	01	RE	22-2	P	A	(XXX)



LJT01RE-XX-XXX  
LJT01RT-XX-XXX



Shell Size	C Max.	M +.000 -.005	N +.001 -.005	S ±.016	V Thread Class 2A (Plated)
9	1.094	.632	.572	.938	.4375-28 UNEF
11	1.188	.632	.700	1.031	.5625-24 UNEF
13	1.281	.632	.850	1.125	.6875-24 UNEF
15	1.375	.632	.975	1.219	.8125-20 UNEF
17	1.469	.632	1.100	1.312	.9375-20 UNEF
19	1.594	.632	1.207	1.438	1.0625-18 UNEF
21	1.719	.602	1.332	1.562	1.1875-18 UNEF
23	1.844	.602	1.457	1.688	1.3125-18 UNEF
25	1.969	.602	1.582	1.812	1.4375-18 UNEF

All dimensions for reference only.

# LJT02R (MS27496) – Crimp (Box Mount Recept.)

# LJTP02R (MS27505) – Crimp

## Box Mounting Receptacle (Back Panel Mounting)

### PART #

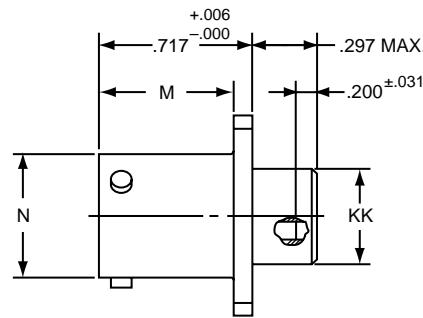
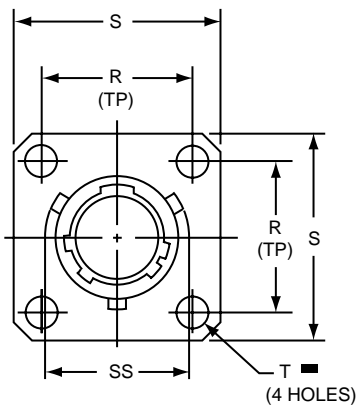
Part number reference. To complete, see how to order pages 46-50.

#### Commercial

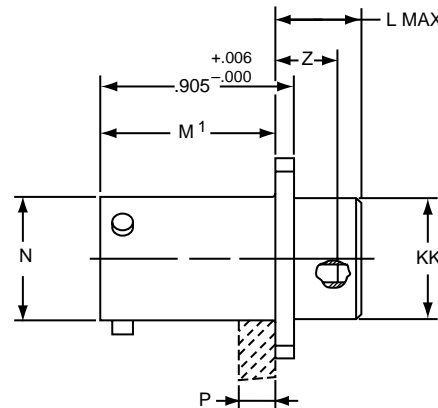
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT/LJTP	02	RE	22-2	P	A	(XXX)

#### Military

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27496	E	14	A	18	P	A
MS27505	E	14	A	18	P	A



LJT02RE-XX-XXX (MS27496E)



LJTP02RE-XX-XXX (MS27505E)

⊕ .005 DIA ⊕

Shell Size	L Max.	M +.000 -.005	M' +.001 -.005	N Dia +.001 -.005	P Max. Panel Thickness	R (TP)	S +.011 -.010	T Dia. ±.005	Z ±.031	KK Dia. +.006 -.005	SS Dia. +.000 -.016
9	.203	.632	.820	.572	.234	.719	.938	.128	.107	.433	.662
11	.203	.632	.820	.700	.234	.812	1.031	.128	.107	.557	.810
13	.203	.632	.820	.850	.234	.906	1.125	.128	.107	.676	.960
15	.203	.632	.820	.975	.234	.969	1.219	.128	.107	.801	1.085
17	.203	.632	.820	1.100	.234	1.062	1.312	.128	.107	.926	1.210
19	.203	.632	.820	1.207	.234	1.156	1.438	.128	.107	1.032	1.317
21	.234	.602	.790	1.332	.204	1.250	1.562	.128	.137	1.157	1.442
23	.234	.602	.790	1.457	.204	1.375	1.688	.147	.137	1.282	1.567
25	.234	.602	.790	1.582	.193	1.500	1.812	.147	.137	1.407	1.692

All dimensions for reference only.

III 38999 I SJT

Matrix 2 26482

Matrix Pyle 83723 III

Release Matrix 5015 Crimp Rear

Pyle 26500

Printed Circuit Board

EM I Filter Transient

Fiber Optics

High Speed Contacts

Options Others



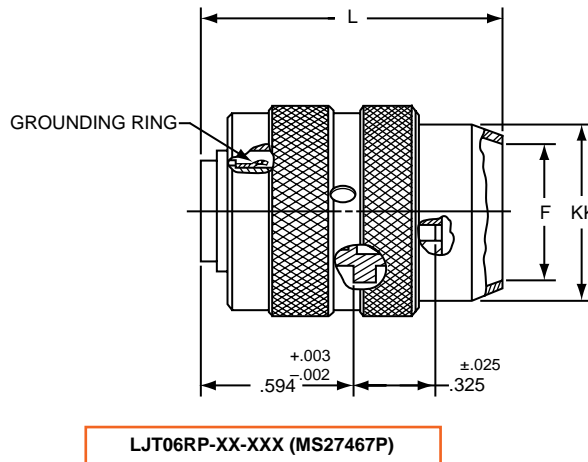
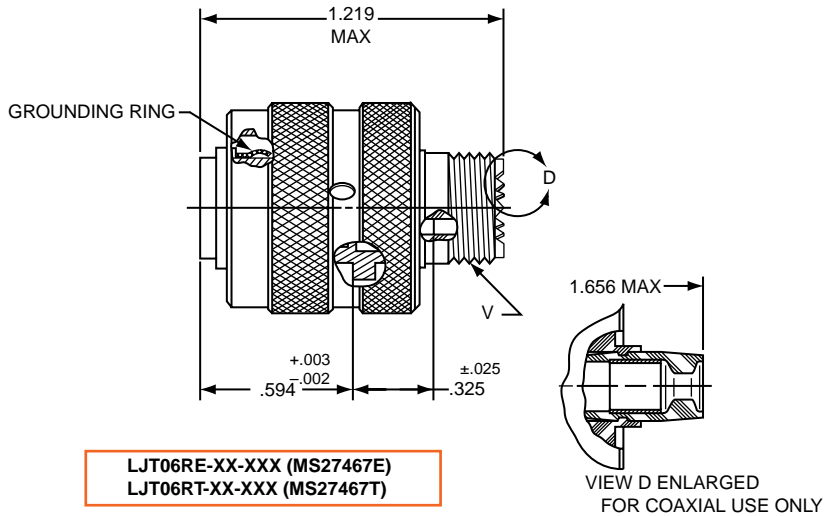
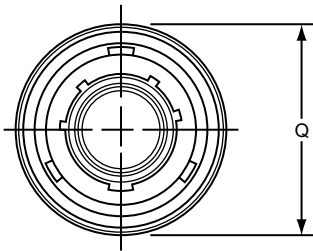
- 38999 III  
SJT I II III
- 26482 Matrix 2
- 83723 III Pyle  
Matrix Pyle
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

**PART #** Part number reference. To complete, see how to order pages 46-50.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	06	RE	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27467	E	14	A	18	P	A



Shell Size	F Dia. ±.010	L Max.	Q Max.	V Thread Class 2A (Plated)	KK Dia. Max.
9	.444	1.531	.844	.4375-28 UNEF	.608
11	.528	1.531	.969	.5625-24 UNEF	.734
13	.683	1.531	1.141	.6875-24 UNEF	.858
15	.808	1.531	1.266	.8125-20 UNEF	.984
17	.909	1.531	1.391	.9375-20 UNEF	1.110
19	1.034	1.531	1.500	1.0625-18 UNEF	1.234
21	1.159	1.625	1.625	1.1875-18 UNEF	1.360
23	1.284	1.625	1.750	1.3125-18 UNEF	1.484
25	1.409	1.625	1.875	1.4375-18 UNEF	1.610

All dimensions for reference only.

# LJT07R (MS27468) Series I – Crimp Jam Nut Receptacle



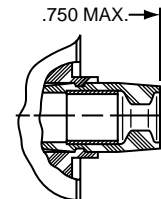
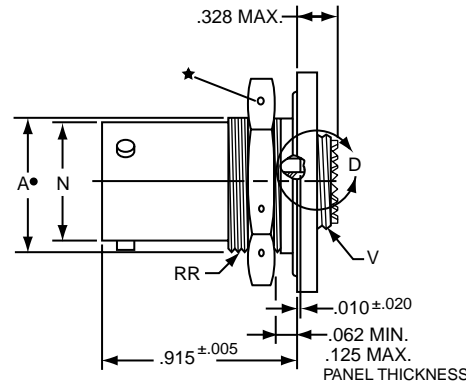
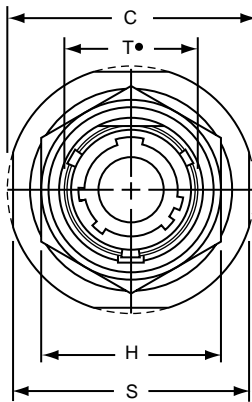
## PART # Commercial

Part number reference. To complete, see how to order pages 46-50.

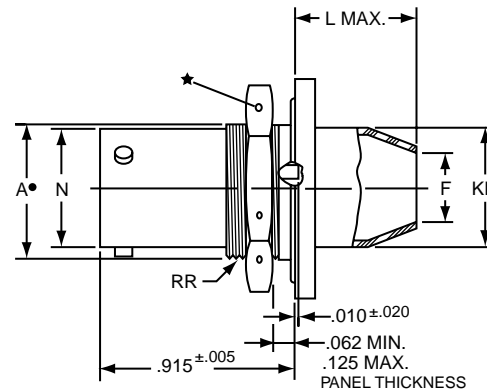
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	07	RE	22-2	P	A	(XXX)

## Military

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27498	E	14	A	18	P	A



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



LJT07RP-XX-XXX (MS27468P)

- ★ .059 Dia. Min. 3 lockwire holes.
- Formed lockwire hole design (6 holes) is optional.
- “D” shaped mounting hole dimensions.

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

All dimensions for reference only.

- III 38999
- II 1 SJT
- Matrix 2 26482
- Matrix Pyle 83723 III
- Release Matrix 5015 Crimp Rear
- 26500 Pyle
- Printed Circuit Board
- EM I Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others



38999

SJT I

III

26482

Matrix 2

83723 III

Matrix Pyle

5015

Crimp Rear Release Matrix

26500 Pyle

Printed Circuit Board

EMI Filter Transient

Fiber Optics

High Speed Contacts

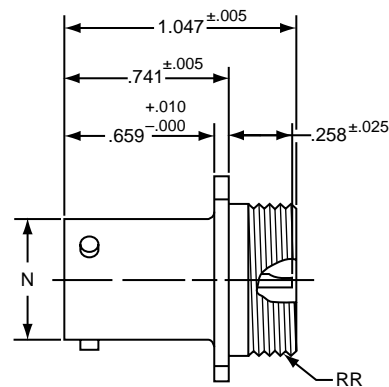
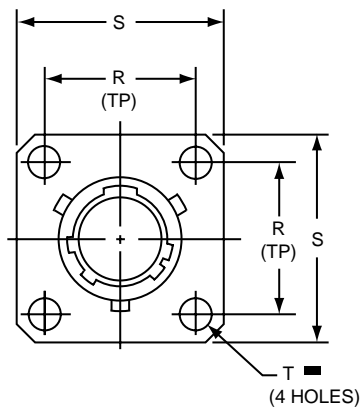
Options Others

**PART #** Part number reference. To complete, see how to order pages 46-50.  
**Commercial**

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

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27469	Y	14	D	18	P	A



\* LJT00H-XX-XXX  
 \*\* LJT00Y-XX-XXX (MS27469YXXD)  
 \*\*\* LJTS00Y-XX-XXX (MS27469YXXE)

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

\* Long Junior Tri-Lock

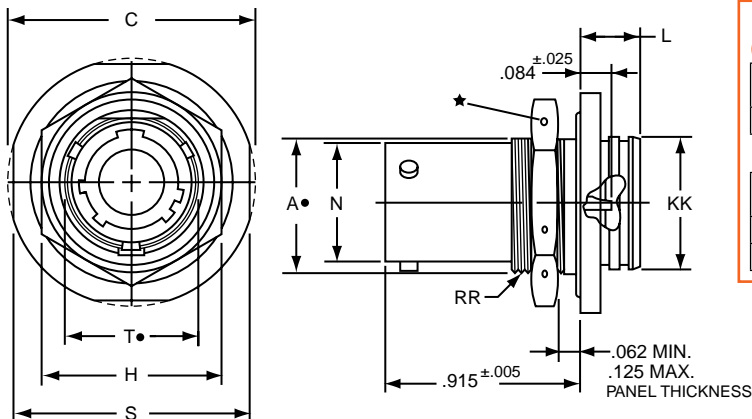
\*\* Interfacial seal wafer

\*\*\* High temperature version, interfacial seal wafer with stainless steel shell

Shell Size	N Dia. +.001 -.005	R (TP)	S ±.016	T Dia. ±.005	RR Thread Class 2A
9	.572	.719	.938	.128	.6875-24 UNEF
11	.700	.812	1.031	.128	.8125-20 UNEF
13	.850	.906	1.125	.128	.9375-20 UNEF
15	.975	.969	1.219	.128	1.0625-18 UNEF
17	1.100	1.062	1.312	.128	1.1875-18 UNEF
19	1.207	1.156	1.438	.128	1.3125-18 UNEF
21	1.332	1.250	1.562	.128	1.4375-18 UNEF
23	1.457	1.375	1.688	.147	1.5625-18 UNEF
25	1.582	1.500	1.812	.147	1.6875-18 UNEF

All dimensions for reference only.

# LJT07 (MS27470) Series I – Hermetic Jam Nut Receptacle



**PART #**  
**Commercial**  
 Part number reference. To complete, see how to order pages 46-50.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT/LJTS	H	RE	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27470	Y	14	A	18	P	A
MS27471	Y	14	A	18	P	A

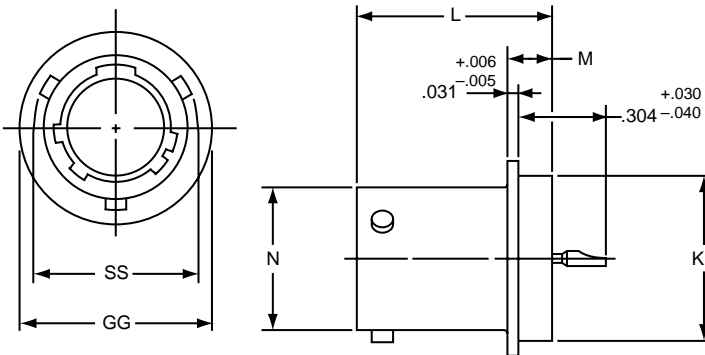
Shell Size	A* +.000 -.010	C Max.	H Hex +.017 -.016	L Max.	N +.000 -.005	S ±.016	T* +.010 -.000	KK +.011 -.000	RR Thread Class 2A (Plated)
9	.669	1.199	.875	.297	.572	1.062	.697	.642	.6875-24 UNEF
11	.769	1.386	1.000	.297	.700	1.250	.822	.766	.8125-20 UNEF
13	.955	1.511	1.188	.297	.850	1.375	1.007	.892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

All dimensions for reference only.

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

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

# LJTI (MS27471) Series I – Hermetic Solder Mounting Receptacle



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

Shell Size	N Dia. +.001 -.005	SS Dia. +.000 -.016	L +.011 -.000	M +.006 -.005	GG Dia. +.011 -.010	KK Dia. +.001 -.005
9	.572	.662	.789	.125	.750	.672
11	.700	.810	.789	.125	.844	.781
13	.850	.960	.789	.125	.969	.906
15	.975	1.085	.789	.125	1.094	1.031
17	1.100	1.210	.789	.125	1.218	1.156
19	1.207	1.317	.789	.125	1.312	1.250
21	1.332	1.442	.789	.125	1.438	1.375
23	1.457	1.567	.821	.156	1.563	1.500
25	1.582	1.692	.821	.156	1.688	1.625

- \* LJTIH-XX-XXX
- \*\* LJTIY-XX-XXX (MS27471YXXD)
- \*\*\* LJTSIY-XX-XXX (MS27471YXXE)

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

- III 38999 SJT
- II 26482 Matrix 2
- I 83723 III Matrix Pyle
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

Military qualified to MIL-DTL-27599

**PART #** Part number reference. To complete, see how to order pages 46-50.

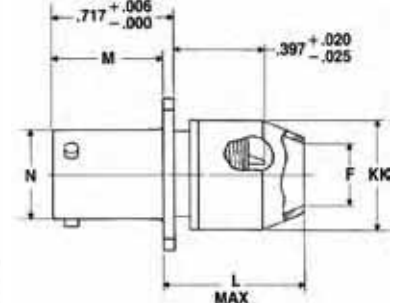
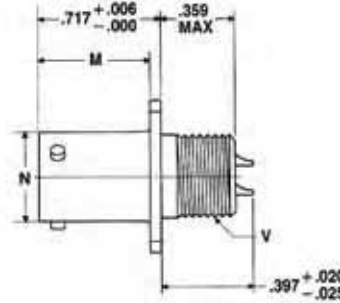
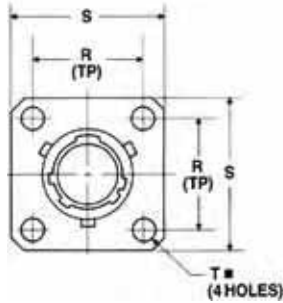
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	00	P	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS20026	T	14	A	18	P	A
MS20027	T	14	A	18	P	A

LJT00T-XX-XXX (MS20026T)

LJT00P-XX-XXX



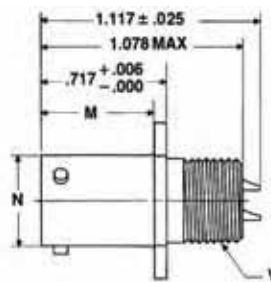
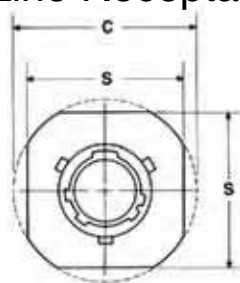
⊕ .005 DIA ⊕

NOTE: For availability of back panel mounting types, CHECK with nearest sales office or call Amphenol, Sidney, NY.

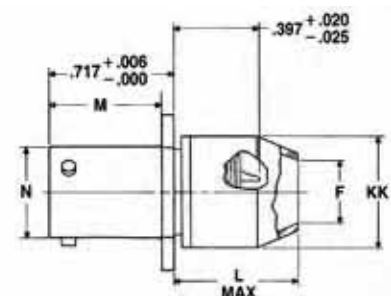
Shell Size	F Dia.	L Max.	M +.000 - .005	N +.001 - .005	R (TP)	S ±.016	T Dia. ±.005	VThread Class 2A UNEF (Plated)	KK Dia. Max.
9	.327	.625	.632	.572	.719	.938	.128	.4375-28	.608
11	.444	.625	.632	.700	.812	1.031	.128	.5625-24	.734
13	.558	.625	.632	.850	.906	1.125	.128	.6875-24	.858
15	.683	.625	.632	.975	.969	1.219	.128	.8125-20	.984
17	.808	.625	.632	1.100	1.062	1.312	.128	.9375-20	1.110
19	.909	.625	.632	1.207	1.156	1.438	.128	1.0625-18	1.234
21	1.034	.703	.602	1.332	1.250	1.562	.128	1.1875-18	1.360
23	1.159	.703	.602	1.457	1.375	1.688	.147	1.3125-18	1.484
25	1.284	.703	.602	1.582	1.500	1.812	.147	1.4375-18	1.610

## LJT01 (MS20027) Series I – Solder Line Receptacle

Military qualified to MIL-DTL-27599



LJT01T-XX-XXX (MS20027T)



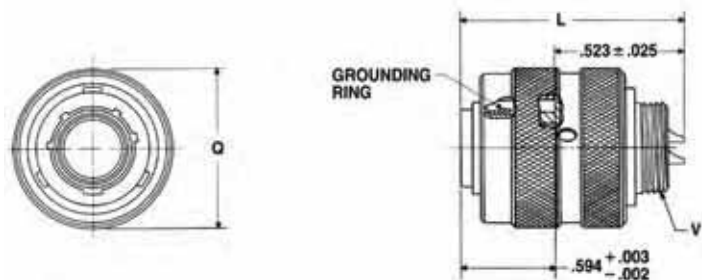
LJT01P-XX-XXX

Shell Size	C Max.	F Dia.	L Max.	M +.000 - .005	N +.001 - .005	S ±.016	VThread Class 2A UNEF (Plated)	KK Dia. Max.
9	1.094	.327	.625	.632	.572	.938	.4375-28	.608
11	1.188	.444	.625	.632	.700	1.031	.5625-24	.734
13	1.281	.558	.625	.632	.850	1.125	.6875-24	.858
15	1.375	.683	.625	.632	.975	1.219	.8125-20	.984
17	1.469	.808	.625	.632	1.100	1.312	.9375-20	1.110
19	1.594	.909	.625	.632	1.207	1.438	1.0625-18	1.234
21	1.719	1.034	.703	.602	1.332	1.562	1.1875-18	1.360
23	1.844	1.159	.703	.602	1.457	1.688	1.3125-18	1.484
25	1.969	1.284	.703	.602	1.582	1.812	1.4375-18	1.610

All dimensions for reference only.

# LJT06 (MS20028) Series I – Solder Straight Plug

**Military qualified to MIL-DTL-27599**



**PART #** Part number reference. To complete, see how to order pages 46-50.

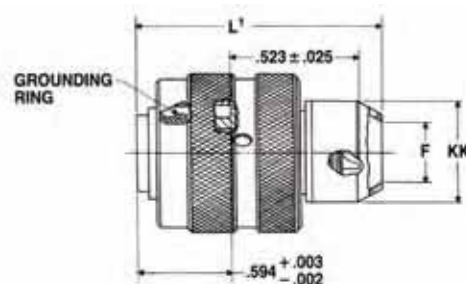
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT	06	T	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS20028	T	14	A	18	P	A
MS20029	T	14	A	18	P	A

**LJT06T-XX-XXX (MS20028T)**

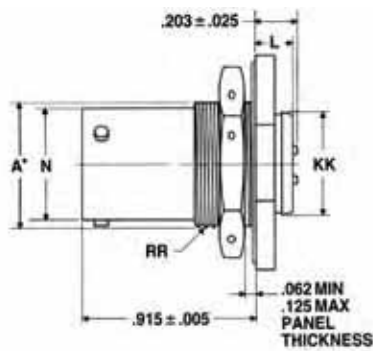
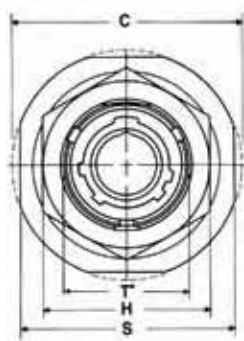
Shell Size	F Dia.	L Max.	L' Max.	Q Max.	VThread Class 2A UNEF (Plated)	KK Dia. Max.
9	.327	1.128	1.488	.844	.4375-28	.608
11	.444	1.128	1.488	.969	.5625-24	.734
13	.558	1.128	1.488	1.141	.6875-24	.858
15	.683	1.128	1.488	1.266	.8125-20	.984
17	.808	1.128	1.488	1.391	.9375-20	1.110
19	.909	1.128	1.488	1.500	1.0625-18	1.234
21	1.034	1.128	1.566	1.625	1.1875-18	1.360
23	1.159	1.128	1.566	1.750	1.3125-18	1.484
25	1.284	1.191	1.644	1.875	1.4375-18	1.610



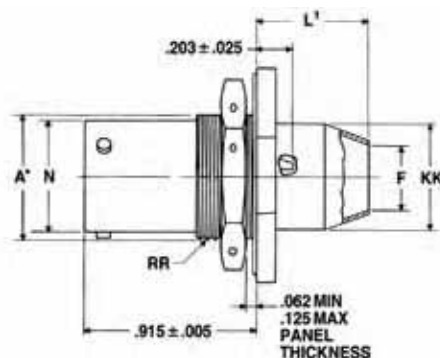
**LJT06P-XX-XXX**

# LJT07 (MS20029) Series I – Solder Jam Nut Receptacle

**Military qualified to MIL-DTL-27599**



**LJT07T-XX-XXX (MS20029T)**



**LJT07P-XX-XXX (MS20029P)**

• "D" shaped mounting hole dimensions

Shell Size	A* +.000 / -.010	C Max.	F Dia.	H Hex +.017 / -.016	L Max.	L' Max.	N +.001 / -.005	S ±.016	T* +.010 / -.000	KK +.011 / -.000	KK' Dia. Max.	RR Thread Class 2A (Plated)
9	.669	1.199	.327	.875	.234	.625	.572	1.062	.697	.516	.608	.6875-24UNEF
11	.769	1.386	.444	1.000	.234	.625	.700	1.250	.822	.642	.734	.8125-20UNEF
13	.955	1.511	.558	1.188	.234	.625	.850	1.375	1.007	.766	.858	1.0000-20UNEF
15	1.084	1.636	.683	1.312	.234	.625	.975	1.500	1.134	.892	.984	1.1250-18UNEF
17	1.208	1.761	.808	1.438	.234	.625	1.100	1.625	1.259	1.018	1.110	1.2500-18UNEF
19	1.333	1.949	.909	1.562	.266	.625	1.207	1.812	1.384	1.142	1.234	1.3750-18UNEF
21	1.459	2.073	1.034	1.688	.266	.656	1.332	1.938	1.507	1.268	1.360	1.5000-18UNEF
23	1.580	2.199	1.159	1.812	.266	.750	1.457	2.062	1.634	1.392	1.484	1.6250-18UNEF
25	1.709	2.323	1.284	2.000	.266	.750	1.582	2.188	1.759	1.518	1.610	1.7500-18UNS

All dimensions for reference only.

38999  
SJT

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

## INSERT AVAILABILITY

Shell Size / Insert Arrangement	Service Rating	Total Contacts	Contact Size							
			22D	20	16	12	12 Coax	8 Coax*	8 Twinax	
11-2	I	2			2					
11-35	M	13	13							
11-98	I	6		6						
13-4	I	4			4					
13-8	I	8		8						
13-35	M	22	22							
13-98	I	10		10						
15-5	II	5			5					
15-15	I	15		14	1					
15-18	I	18		18						
15-19	I	19		19						
15-35	M	37	37							
15-97	I	12		8	4					
17-6	I	6				6				
17-8	II	8			8					
17-26	I	26		26						
17-35	M	55	55							
17-99	I	23		21	2					
19-11	II	11			11					
19-32	I	32		32						
19-35	M	66	66							
21-11	I	11				11				
21-16	II	16			16					
21-35	M	79	79							
21-39	I	39		37	2					
21-41	I	41		41						
23-21	II	21			21					
23-35	M	100	100							
23-53	I	53		53						
23-54	M	53	40		9	4				
23-55	I	55		55						
25-4	I	56		48	8					
25-19	I	19				19				
25-20	N	30		10	13		4			3
25-24	I	24			12	12				
25-29	I	29			29					
25-35	M	128	128							
25-43	I	43		23	20					
25-46	I	46		40	4			2*		
25-61	I	61		61						

### LJT Lanyard Separation Forces

Shell Size	Straight Plug (lbs. max.)	15 Degree Pull (lbs. Max.)
11 13 15	45	55
17 19 21 23 25	90	100

\* For RG 180/U and RG 195/U cables only. (Check Amphenol Aerospace, Sidney, NY for other cable applications). For availability of other insert arrangements and accessories consult Amphenol Aerospace.

## TABLE I INSERT ARRANGEMENT CODE

Basic Part Number	MIL-DTL-38999 Insert Arrangement
88/91-538808	11-2
06	11-35
07	11-98
10	13-4
11	13-8
13	13-98
14	13-35
18	15-5
23	15-15
22	15-18
19	15-19
20	15-35
27	17-6
28	17-8
29	17-26
30	17-35
31	17-99
37	19-11
39	19-32
40	19-35
47	21-11
48	21-16
49	21-35
50	21-41
51	21-39
57	23-21
58	23-35
59	23-53
61	23-54
60	23-55
66	25-19
74	25-20
67	25-29
68	25-35
69	25-43
70	25-61
71	25-46
72	25-2
74	25-4

## TABLE II LANYARD LENGTH CODES

Lanyard Length (in.) ±.250	MS	Commercial Code
4.000		40
4.250		41
4.500		42
4.750		43
5.000		50
5.250		51
5.500		52
5.750		53
6.000	No	60
6.250	Code	61
6.500		62
6.750	Std.	63
7.000	Length	70
7.250	6.250	71
7.500		72
7.750		73
8.000		80
8.250		81
8.500		82
8.750		83
9.000		90
9.250		91
9.500		92
9.750		93

# Series I, LJT Breakaway Fail Safe Lanyard Release Plug How to Order, cont.

III 38999  
II 1 SJT  
I 26482 Matrix 2  
83723 III Matrix Pyle  
5015 Crimp Rear Release Matrix  
26500 Pyle  
Printed Circuit Board  
EMI Filter Transient  
Fiber Optics  
High Speed Contacts  
Options Others

## HOW TO ORDER - BY MILITARY PART NUMBER FAIL SAFE MS27661

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

MS Number	Service Class	Shell Size	Finish	Insert Arrg.	Contact Style	Alternate Position
MS27661	T	17	B	35	P	A

### 1. MS27661 Number

MS Number designates MIL-DTL-38999, Series I LJT Lanyard Release Plug

### 2. Select a Service Class

<b>E</b>	For environmental crimp applications (inactive for new design)
<b>T</b>	For environmental crimp applications with serrations on rear threads of shell

### 3. Select a Shell Size

MIL-DTL-38999, sizes 11 through 25, see chart on page 78.

### 4. Select a Finish

<b>B</b>	Designates corrosion resistant olive drab cadmium plated aluminum, 500 hour extended salt spray, EMI shielding effectiveness -50dB @ 10 GHz specification min., 175°C
<b>F</b>	Designates electroless nickel plated aluminum, 48 hour salt spray, EMI shielding effectiveness -65dB @ 10 GHz 500 specification min., 200°C

These are standard finishes. Consult Amphenol Aerospace for variations.

### 5. Select an Insert Arrangement

MIL-DTL-38999, see insert identification chart on page 78.

### 6. Select a Contact Style

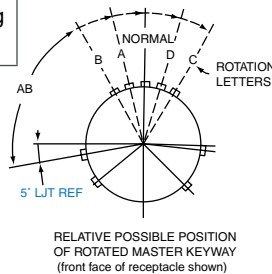
<b>P</b>	Designates Lanyard Release plug with pin contacts
<b>S</b>	Designates Lanyard Release plug with socket contacts

### 7. Alternate Keying Position

For alternate Position of connector (to prevent cross-mating) see LJT key/keyway rotation below. (No letter is required for normal)

#### LJT Key/Keyway Rotation

Shell Size	AB ANGLE OF ROTATION (Degrees)				
	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°



## HOW TO ORDER - BY COMMERCIAL PART NUMBER FAIL SAFE 88-5388 OR 91-5388

- 1.
- 2.
- 3.
- 4.
- 5.

Finish	Connector Type Identification	Shell Size & Insert Arrangement	Lanyard Length Code	Contact Type Alternate Rotation of Insert
88	5388	29	40	P

### 1. Select a Finish

<b>88</b>	Designates corrosion resistant olive drab cadmium plate over nickel, 500 hour extended salt spray, EMI -50dB @ 10 GHz specification min., 175°C
<b>91</b>	Designates electroless nickel plated aluminum, optimum EMI shielding effectiveness -65dB @ 10 GHz specification min., 48 hour salt spray, 200°C

These are standard finishes. Consult Amphenol Aerospace, Sidney, NY for variations.

### 2. Connector Type Identification

<b>5388</b>	Designates MIL-DTL-38999, Series I LJT Lanyard Release Plug
-------------	---

### 3. Select a Shell Size and Insert Arrangement

Shell sizes are MIL-DTL-38999, Series III from sizes 11 thru 25. The basic part number selected specifies the insert arrangement. See Table I (page 78) for coded part number that correlates to insert arrangement.

### 4. Select a Lanyard Length Code

See Table II (page 78) for lanyard length code number.

### 5. Select a Contact Type/Alternate Rotation of Insert

<b>P</b>	Designates Lanyard Release plug with pin contacts
<b>S</b>	Designates Lanyard Release plug with socket contacts

When an alternate position of the connector is required to prevent cross-mating, a different letter (other than P or S) is used. See alternate positioning for LJT (to your left), then convert to Amphenol commercial coding by the following chart below.

Pin Contacts		Socket Contacts	
MS Letter	Amphenol Letter	MS Letter	Amphenol Letter
P	P (normal)	S	S (normal)
PA	E	SA	F
PB	R	SB	T
PC	W	SC	X
PD	Y	SD	Z



Amphenol LJT Breakaway Fail Safe Connectors provide unequaled performance in environments requiring instant disengagement.

Designed to provide quick disconnect of a connector plug and receptacle with an axial pull on the lanyard, the "Breakaway" Fail Safe connector family offers a wide range of electrical and mechanical features:

- Instant decoupling and damage free separation
- Completely intermateable with standard LJT receptacles
- Inventory support commonality through the use of standard insert arrangements and contacts

Breakaway un-mating is initiated by applying a pull force to the lanyard which causes the operating sleeve on the plug to move away from the receptacle. Coupling segments on the plug then move away from the mating receptacle while expanding, thus releasing the receptacle. After completion of the un-mating sequence, spring compression returns the sleeve and segments to their original positions. Un-mating of the plug may also be accomplished by normal rotation of the coupling ring without affecting the breakaway capability.

The LJT Breakaway Fail Safe connector features which provide EMI EMP shielding in excess of MIL-DTL-38999 Series I requirements:

- Solid metal-to-metal coupling
- EMI grounding fingers
- Conductive finishes

Contact Amphenol Aerospace for more information on breakaway, quick-disconnect connectors. Other Amphenol cylindrical families (MIL-DTL-38999 Series III, MIL-DTL-26482, MIL-DTL-83723) also offer breakaway quick-disconnect connectors.

**PART #** Part number reference. To complete, see how to order pages 79.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
88/91	5388	T	22-2	P	A	(XXX)

**Military**

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27661	T	14	A	18	P	A

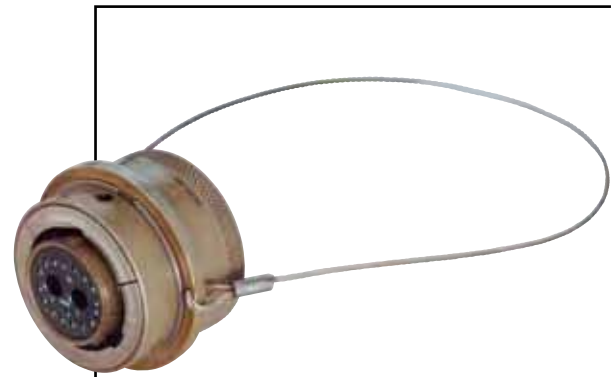
### LJT Fail Safe 88-5388/91-5388 (MS27661)

#### Lanyard Release Plug

\* To complete order number see page 79.

Shell Size	A Dia. Max.	B Max.	D Max. Accessory Dia.	L Max.	V Thread UNEF Class 2A (Plated)
11	1.393	1.797	.740	1.703	.5625-24
13	1.558	1.969	.926	1.703	.6875-24
15	1.669	2.078	1.051	1.703	.8125-20
17	1.797	2.203	1.176	1.703	.9375-20
19	1.926	2.323	1.300	1.703	1.0625-18
21	2.054	2.469	1.426	1.703	1.1875-18
23	2.183	2.594	1.551	1.703	1.3125-18
25	2.293	2.703	1.676	1.766	1.4375-18

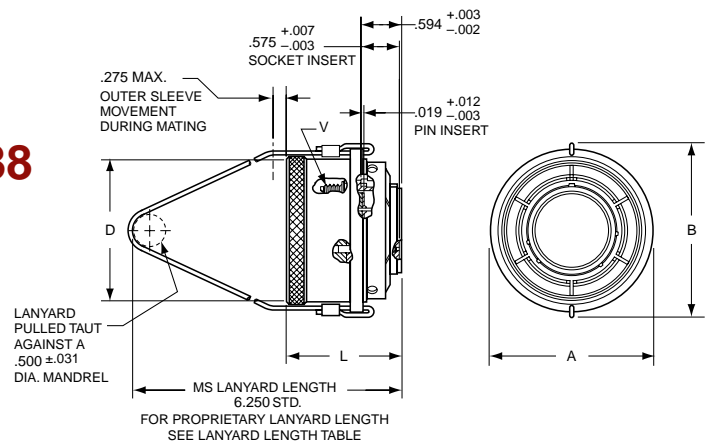
All dimensions for reference only.



### LJT Breakaway Fail Safe

In addition to standard Breakaway connectors, Amphenol also manufactures custom breakaway connectors including those with:

- Increased pull-force capability
- Custom lanyard lengths and backshells
- Low force separation capabilities
- Low insertion/separation force contacts
- Non-cadmium finishes
- Custom JT Series Breakaway designs have been developed for special applications; however the LJT Series is recommended over the JT Series for the quick-disconnect breakaway style.



38999 SJT I II III  
26482 Matrix 2  
83723 III Matrix Pyle  
5015 Crimp Rear Release Matrix  
26500 Pyle  
Printed Circuit Board  
EMI Filter Transient  
Fiber Optics  
High Speed Contacts  
Options Others

# Amphenol SJT Series



## TABLE OF CONTENTS

### Amphenol SJT Connectors -

#### Scoop-Proof Design of LJT Series & Standard Mounting Dimensions of JT Series - Meet European Specification Applications

• Table of Contents . . . . .	81
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• How to Order, Alternate Rotations . . . . .	83
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### SJT Shell Styles:

• Crimp Wall Mounting Receptacle SJT00RT, Crimp Wall Mounting Receptacle for Back Panel Mounting SJTP00RT	85
• Crimp Box Mounting Receptacle for Back Panel Mounting SJTP02RE, Crimp Jam Nut Receptacle SJT07RT . . . . .	86
• Crimp Straight Plug SJT06RT, Crimp Straight Plug with Grounding Fingers SJTG06RT . . . . .	87
• Hermetic Solder Mounting Receptacle SJTIY, Hermetic Jam Nut Receptacle SJT07Y . . . . .	88
• Accessories, Contacts, and Tools see pages . . . . .	89-108



### SJT Typical Markets:

- Military & Commercial Aviation (older designs)
- Applications Complaint with European Specifications:  
PAN6433-2, LN29729, VG96912
- Military Vehicles



Amphenol® SJT connectors combine unique design features of the scoop-proof LJT series within standard mounting dimensions of JT types. Available in a wide range of shell sizes, finishes, insert arrangements and accessories, the SJT features:



- **100% scoop-proof design** – basic MIL-DTL-38999 Series I\* lengths
- **Standard mounting dimensions** – MIL-DTL-38999, Series III\*\* dimensions
- **Compliance with European Specifications** – PAN6433-2, LN29729, VG96912

### Components

Standard connectors use aluminum shells. Standard plating on shell components is cadmium over nickel with many optional finishes available. A dependable 5-key/keyway shell polarization with bayonet-lock coupling is incorporated to aid and assure positive mating.

The insert material is a high-temperature, rigid dielectric polymer providing excellent electrical characteristics. A fluorinated silicone interfacial seal is featured on the mating face of the pin inserts, assuring complete electrical isolation of the pins when connector halves are mated. Contrasting letter or number designations are used on the insert faces. A main joint gasket is installed in the receptacles for moisture sealing between connector halves.

Serrated and threaded shells, with a moisture sealing pilot for back shells, accept a wide range of accessories.

Hermetic seal receptacles are available in carbon steel or stainless steel shells.

### Contacts

Rear insertable/rear release crimp contacts are standard in SJT connectors. Power contacts are available in sizes 10, 12, 16, 20, 22M and 22D. All socket contacts are probe proof. Standard contact plating is 50 mμ minimum gold. Coaxial contacts are available in sizes 8, 12 and 16 to accommodate a wide range of coaxial cables; see Coaxial contact information in the High Speed Contact section of this catalog. Size 8 and 12 Twinax contacts are also available; see Concentric Twinax contact information in the High Speed Contact section of this catalog.

### Optional Features

Special adaptations of the SJT are available for hermetic and high temperature applications. The SJTS high temperature connector is rated at 392°F. SJT hermetic receptacles are described on page 88.

### Specials

Special types are available, such as connectors less contacts and circular rack and panel connectors with solderless wrap contacts. A complete listing of connector types, shell styles and service classes appears on page 83, How to Order. For further information on special application requirements, contact an Amphenol Sales Person or visit [www.amphenol-aerospace.com/support](http://www.amphenol-aerospace.com/support) to find a sales person in your area.

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

\*\*MIL-DTL-38999 Series III supersedes MIL-C-38999 Series III.

### CONTACT RATING

Contact Size	Test Current		Maximum Millivolt Drop Crimp*	Maximum Millivolt Drop Hermetic	Crimp Well Data	
	Standard	Hermetic			Well Diameter	Min. Well Depth
22M	3	2	45	60	.028 ±.001	.141
22D	5	3	73	85	.0345 ±.0010	.141
22	5	3	73	85	.0365 ±.0010	.141
20	7.5	5	55	60	.047 ±.001	.209
16	13	10	49	85	.067 ±.001	.209
12	23	17	42	85	.100 ±.002	.209
10 Power	33	NA	33	NA	.137 ±.002	.355

\* When using silver plated wire

### SERVICE RATING\*\*

Service Rating	Suggested Operating Voltage (Sea Level)		Test Voltage (Sea Level)	Test Voltage 50,000 Ft.	Test Voltage 70,000 Ft.	Test Voltage 110,000 Ft.
	AC (RMS)	DC				
M	400	550	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 possible position to know what peak voltage, switching surges, transients, etc., can be expected in a particular circuit.

- 38999 SJT
- 26482 Matrix 2
- 83723 III Matrix Pyle
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

### Easy Steps to build a part number... SJT

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Connector Type SJT	Shell Style	Service Class	Shell Size- Insert Arrangement.	Contact Type	Alternate Keying Position	Finish Variations Suffix
<b>SJT</b>	<b>00</b>	<b>RT</b>	<b>18-66</b>	<b>P</b>	<b>A</b>	<b>(XXX)</b>

#### Step 1. Select a Connector Type

	Designates
<b>SJT</b>	Standard scoop-proof Junior Tri-Lock Connector
<b>SJTS</b>	High Temperature Connector
<b>SJTG</b>	Plug with Grounding Fingers
<b>SJTP</b>	Back Panel Mounted

#### Step 2. Select a Shell Style

	Designates
<b>00</b>	Wall Mount Receptacle
<b>06</b>	Straight Plug
<b>07</b>	Jam Nut Receptacle
<b>I</b>	Solder Mount Receptacle – Hermetic

#### Step 3. Select a Service Class

	Designates
<b>Y</b>	For hermetic applications. . . Fused compression glass sealed inserts. Leakage rate less than $1.0 \times 10^{-6}$ cc/sec. at 15 psi differential; with interfacial seal.
<b>RT</b>	For environmental applications – supplied without rear accessories. Design provides serrations on rear threads of shells with moisture sealing pilot for back shells.

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

#### Step 4. Select a Shell Size & Insert Arrangement from chart on pg. 84. To view Insert Arrangement illustrations see pgs. 8-12.

Shell Size & Insert Arrangements are together in one chart. First number represents Shell Size, second number is the Insert Arrangement. Only selected illustrations are available for SJT on pages 8-12. Please refer to chart on page 84 for select Insert Arrangements.

#### Step 5. Select a Contact Type

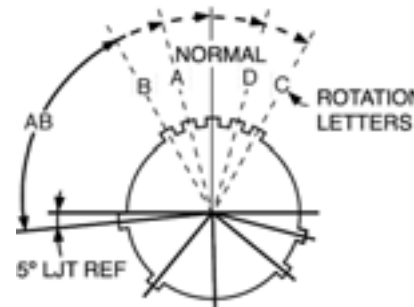
	Designates
<b>P</b>	Pin Contacts
<b>S</b>	Socket Contacts

#### Step 6. Select an Alternate Keying 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. Inserts are not rotated in conjunction with the master key/keyway. 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.

**Key/Keyway Rotation  
AB ANGLE OF ROTATION (Degrees)**

Shell Size	Normal	A	B	C	D
8	95				
10	95	81	67	123	109
12	95	75	63	127	115
14	95	74	61	129	116
16	95	77	65	125	113
18	95	77	65	125	113
20	95	77	65	125	113
22	95	80	69	121	110
24	95	80	69	121	110



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

#### Step 7. Select a Finish Variation Suffix

**FINISH DATA**

Aluminum Shell Components Non-Hermetic		
Finish	Suffix	Indicated Finish Standard for SJT Types
Bright Cadmium Plated Nickel Base		<b>SJT/SJTG</b>
Anodic Coating (Alumilite)	<b>(005)</b>	
Chromate Treated (Iridite 14-2)	<b>(011)</b>	
Olive Drab Cadmium Plate Nickel Base	<b>(014)</b>	
Electroless Nickel Coating	<b>(023)</b>	
Hermetic Connectors		
Carbon Steel Shell, Tin Plated Shell and Contacts		<b>SJT( Y)</b>
Stainless Steel Shell, Gold Plated Contacts	Consult Amphenol	

38999
SJT

26482
Matrix 2

83723
Matrix Pyle

5015
Crimp Rear Release Matrix

26500
Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

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

◆ Not tooled for 02-RE

\* Pin inserts only (contact Amphenol for socket availability).

\*\* twinax contacts for MIL-C-17/176-00002 cable.

\*\*\* Two size 16 contacts dedicated to fiber optics. Consult Amphenol or Fiber Optic Section for more information.

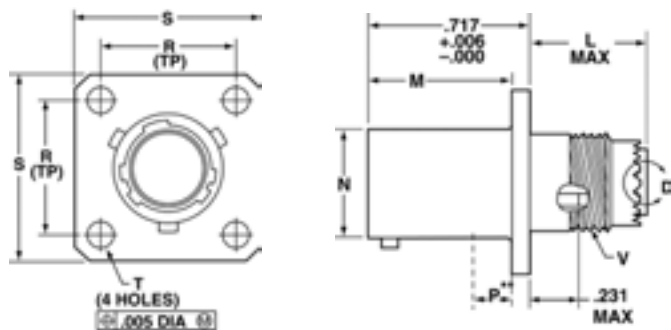
† Must be ordered separately

†† Coax Contacts for RG180 or RG195 cable.

††† Size 8 Coax and Twinax are interchangeable.  
For availability of size 12 twinax contacts, consult Amphenol, Sidney, NY



# SJT00RT – Crimp Wall Mounting Receptacle

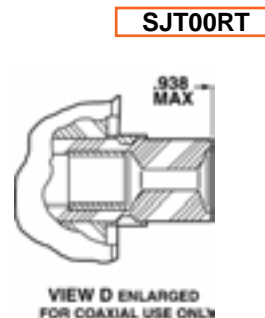


**PART #** \*To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJT	00	RT	X-X	X	X	(XXX)

Note: Standard wall mount may be back panel mounted where panel thickness does not exceed these dimensions. For thicker panel applications, SJTP00RT should be used.

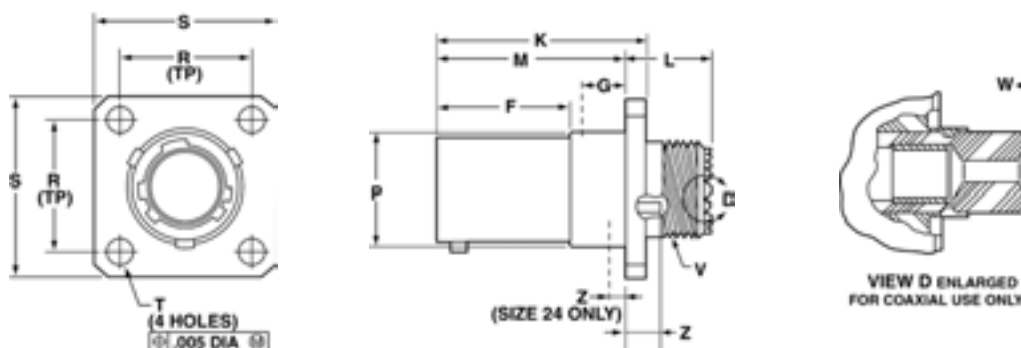
Shell Size	L Max	M +.000 -0.005	R (TP)	S ±.016	T ±.005	V Thread Modified			N +.001 -0.005	P** Max
						Class 2A UNEF (Plated)	Modified Major Dia.			
8	.500	.632	.594	.812	.120	.4375-28	.421 -	.417	.473	.117
10	.500	.632	.719	.938	.120	.5625-24	.542 -	.538	.590	.117
12	.500	.632	.812	1.031	.120	.6875-24	.667 -	.663	.750	.117
14	.500	.632	.906	1.125	.120	.8125-20	.791 -	.787	.875	.117
16	.500	.632	.969	1.219	.120	.9375-20	.916 -	.912	1.000	.117
18	.500	.632	1.062	1.312	.120	1.0625-18	1.034 -	1.030	1.125	.117
20	.500	.602	1.156	1.438	.120	1.1875-18	1.158 -	1.154	1.250	.087
22	.500	.602	1.250	1.562	.120	1.3125-18	1.283 -	1.279	1.375	.087
24	.550	.602	1.375	1.688	.147	1.4375-18	1.408 -	1.404	1.500	.055



# SJTP00RT – Crimp Wall Mounting Receptacle (Back Panel Mounting)

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJTP	00	RT	X-X	X	X	(XXX)



**SJTP00RT**

VIEW D ENLARGED FOR COAXIAL USE ONLY

Shell Size	F +.000 -0.005	K +.006 -0.000	L Max.	M +.000 -0.005	R (TP)	S +.011 -0.010	T ±.005	Z ±.031	V Thread Class 2A (Plated) UNEF	P Dia. +.001 -0.005	W Max.	G Max.
8	.609	.945	.539	.860	.594	.812	.120	.062	.4375-28	.516	.812	.345
10	.609	.945	.539	.860	.719	.938	.120	.062	.5625-24	.633	.812	.345
12	.609	.945	.539	.860	.812	1.031	.120	.062	.6875-24	.802	.812	.345
14	.609	.945	.539	.860	.906	1.125	.120	.062	.8125-20	.927	.812	.345
16	.609	.945	.539	.860	.969	1.219	.120	.062	.9375-20	1.052	.812	.345
18	.609	.945	.539	.860	1.062	1.312	.120	.062	1.0625-18	1.177	.812	.345
20	.609	.945	.539	.860	1.156	1.438	.120	.062	1.1875-18	1.302	.812	.345
22	.609	.945	.539	.860	1.250	1.562	.120	.062	1.3125-18	1.427	.812	.345
24	.750	1.085	.493	1.000	1.375	1.688	.147	.078	1.4375-18	1.552	.781	.452

All dimensions for reference only.

- III 38999
- II SJT
- I 26482 Matrix 2
- 83723 III Matrix Pyle
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others



38999

SJT

26482 Matrix 2

83723 III Matrix Pyle

5015 Crimp Rear Release Matrix

26500 Pyle

Printed Circuit Board

EMI Filter Transient

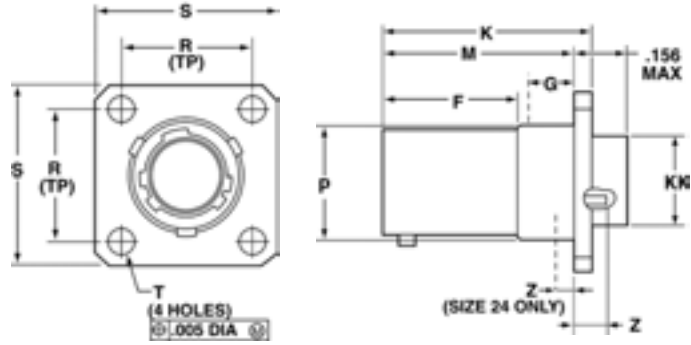
Fiber Optics

High Speed Contacts

Options Others

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJTP	02	RE	X-X	X	X	(XXX)



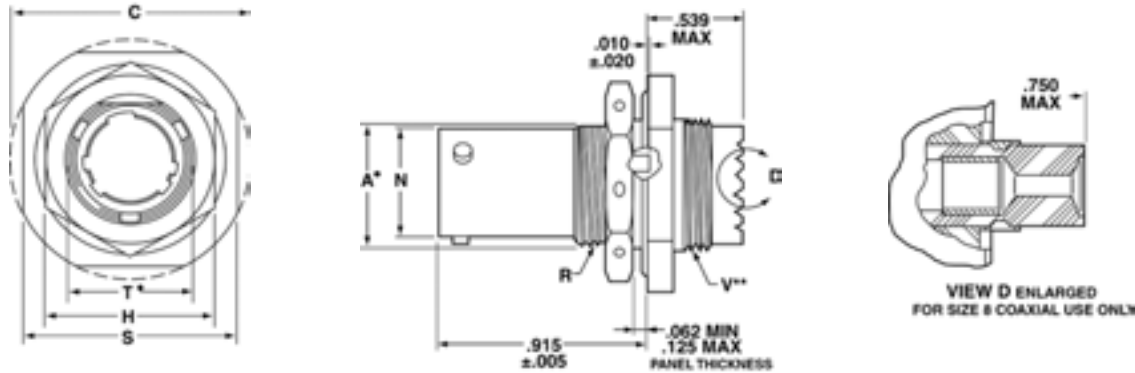
**SJTP02RE**

Shell Size	F +.000 -.005	K +.006 -.000	M +.000 -.005	R (TP)	S +.011 -.010	T ±.005	Z ±.031	P Dia. +.001 -.005	KK Dia. +.005 -.002	G Max.
8	.609	.945	.860	.594	.812	.120	.062	.516	.417	.345
10	.609	.945	.860	.719	.938	.120	.062	.633	.538	.345
12	.609	.945	.860	.812	1.031	.120	.062	.802	.663	.345
14	.609	.945	.860	.906	1.125	.120	.062	.927	.787	.345
16	.609	.945	.860	.969	1.219	.120	.062	1.052	.912	.345
18	.609	.945	.860	1.062	1.312	.120	.062	1.177	1.030	.345
20	.609	.945	.860	1.156	1.438	.120	.062	1.302	1.154	.345
22	.609	.945	.860	1.250	1.562	.120	.062	1.427	1.279	.345
24	.750	1.085	1.000	1.375	1.688	.147	.078	1.552	1.404	.452

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJT	07	RT	X-X	X	X	(XXX)

## SJT07RT – Crimp Jam Nut Receptacle



**SJT07RT**

- "D" shaped panel cut-out dimensions
- \*\* Oversize threads. Check accessory threads before ordering

Shell Size	A* +.000 -.010	H Hex +.017 -.016	S ±.016	VThread Class 2A UNEF (Plated)	RThread Class 2A UNEF (Plated)	N +.001 -.005	C Max.	T* +.010 -.000
8	.542	.750	.938	.5625-24	.5625-24	.473	1.078	.572
10	.669	.875	1.062	.6875-24	.6875-24	.590	1.203	.697
12	.830	1.062	1.250	.8125-20	.8750-20	.750	1.391	.884
14	.955	1.188	1.375	.9375-20	1.0000-20	.875	1.515	1.007
16	1.084	1.312	1.500	1.0625-18	1.1250-18	1.000	1.641	1.134
18	1.208	1.438	1.625	1.1875-18	1.2500-18	1.125	1.766	1.259
20	1.333	1.562	1.812	1.3125-18	1.3750-18	1.250	1.953	1.384
22	1.459	1.688	1.938	1.4375-18	1.5000-18	1.375	2.078	1.507
24	1.580	1.812	2.062	1.4375-18	1.6250-18	1.500	2.203	1.634

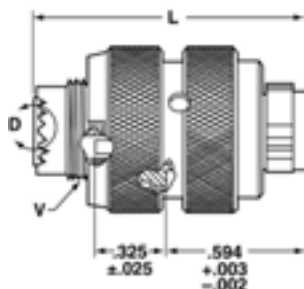
All dimensions for reference only.

# SJT06RT/SJTG06RT – Crimp

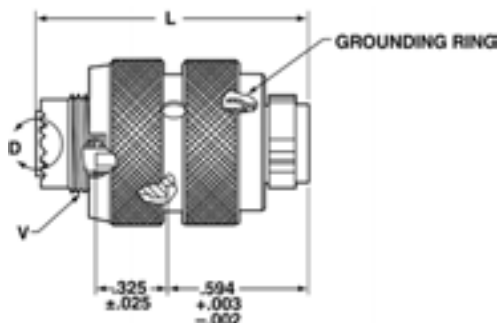
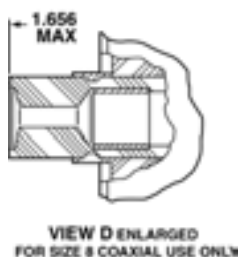
## Straight Plug/Straight Plug (with Grounding Fingers)

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJT	06	RT	X-X	X	X	(XXX)
SJTG	06	RT	X-X	X	X	(XXX)



**SJT06RT**



**SJTG06RT**



Shell Size	L Max	Q Dia. Max.	VThread	
			Class 2A UNEF (Plated)	Modified Major Dia.
8	1.219	.734	.4375-28	.421 – .417
10	1.219	.844	.5625-24	.542 – .538
12	1.219	1.016	.6875-24	.667 – .663
14	1.219	1.141	.8125-20	.791 – .787
16	1.219	1.265	.9375-20	.916 – .912
18	1.219	1.391	1.0625-18	1.034 – 1.030
20	1.219	1.500	1.1875-18	1.158 – 1.154
22	1.219	1.625	1.3125-18	1.283 – 1.279
24	1.258	1.750	1.4375-18	1.408 – 1.404

All dimensions for reference only.

38999  
SJT

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

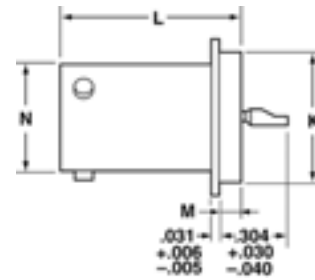
High Speed  
Contacts

Options  
Others

38999  
SJT  
26482  
Matrix 2  
83723 III  
Matrix Pyle  
5015  
Crimp Rear  
Release Matrix  
26500 Pyle  
Printed  
Circuit Board  
EMI Filter  
Transient  
Fiber Optics  
High Speed  
Contacts  
Options  
Others

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJT	I	Y	X-X	X	X	(XXX)



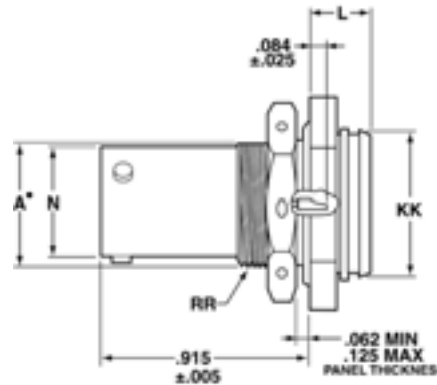
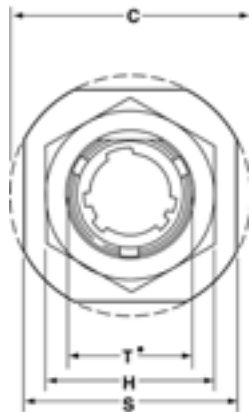
**SJTIY**

Shell Size	L +.011 -.000	M +.006 -.005	G Dia. +.011 -.010	K Dia. +.001 -.005	N +.001 -.005
8	.789	.125	.687	.562	.473
10	.789	.125	.797	.672	.590
12	.789	.125	.906	.781	.750
14	.789	.125	1.031	.906	.875
16	.789	.125	1.156	1.031	1.000
18	.789	.125	1.281	1.156	1.125
20	.789	.125	1.375	1.250	1.250
22	.821	.156	1.500	1.375	1.375
24	.821	.156	1.625	1.500	1.500

**PART #** To complete, see how to order pages 83-84.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Positions	Special Variations
SJT	07	Y	X-X	X	X	(XXX)

**SJT07Y – Hermetic  
Jam Nut Receptacle**



**SJT07Y**

• "D" shaped panel cut-out dimensions

Shell Size	N +.001 -.005	C Max.	A* +.000 -.010	L Max.	H Hex +.017 -.016	S ±.016	KK +.011 -.000	RR Thread Class 2A UNEF (Plated)	T* +.010 -.000
8	.473	1.078	.542	.297	.750	.938	.642	.5625-24	.572
10	.590	1.203	.669	.297	.875	1.062	.766	.6875-24	.697
12	.750	1.391	.830	.297	1.062	1.250	.892	.8750-20	.884
14	.875	1.515	.955	.297	1.188	1.375	1.018	1.0000-20	1.007
16	1.000	1.641	1.084	.297	1.312	1.500	1.142	1.1250-18	1.134
18	1.125	1.766	1.208	.328	1.438	1.625	1.268	1.2500-18	1.259
20	1.250	1.953	1.333	.328	1.562	1.812	1.392	1.3750-18	1.384
22	1.375	2.078	1.459	.328	1.688	1.938	1.518	1.5000-18	1.507
24	1.500	2.203	1.580	.328	1.812	2.062	1.642	1.6250-18	1.634

All dimensions for reference only.

Series III TV

Series II JT

Series I LJT

SJT

Amphenol Aerospace is the leader in Interconnect solutions and provides companies with a product portfolio of connectors, accessories, cable assemblies and system integration for most applications across various industries. With connectors conforming to Military, Aerospace and Industrial standards in US, Europe and Asia, Amphenol assumes the leadership in meeting the interconnect needs of these market segments.



### MIL-DTL-38999 Series III TV Tri-Start

- Backshells Accessories
- Dummy Contacts
- Wire Combs
- Receptacle Protection Cap
- Plug Protection Cap
- Dummy Receptacle
- Cable Clamps
- Contacts-Printed Circuit Board Wire Wrap
- Header Assembly

#### Application Tools

- Crimp Tools
- Insertion Tools
- Removal Tools

### MIL-DTL-38999 Series II JT

- Receptacle Protection Cap
- Plug Protection Cap
- Strain Relief (Solder/Crimp Type)
- Contacts-Printed Circuit Board Wire Wrap
- Header Assembly

#### Application Tools

- Crimp Tools
- Insertion Tools
- Removal Tools

### SJT

- Receptacle Protection Cap
- Plug Protection Cap
- Dummy Receptacle
- Cable Clamps

#### Application Tools

- Crimp Tools
- Insertion Tools
- Removal Tools

### MIL-DTL-38999 Series I LJT

- Receptacle Protection Cap
- Plug Protection Cap
- Dummy Receptacle
- Cable Clamps
- Contacts-Printed Circuit Board Wire Wrap
- Header Assembly

#### Application Tools

- Crimp Tools
- Insertion Tools
- Removal Tools



III  
II  
I  
SJT  
**38999**

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

**Series III TV**

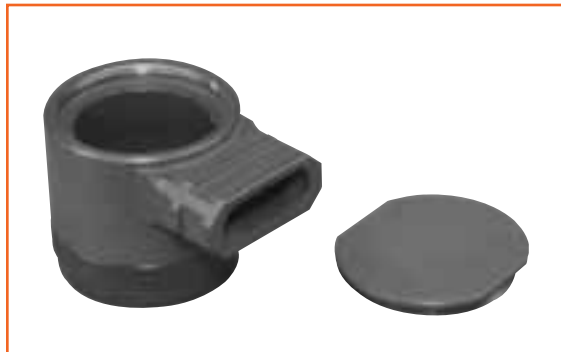
Amphenol offers a full range of accessories that are designed to enhance the performance of Amphenol Breakaway connectors.

**Low Profile Backshells in shell size 25 with the following features:**

- Olive drab cadmium finish
- 90 degree termination
- Low profile design with three heights ranging from 1.010 to 1.660
- Rear access covers to help ease harness assembly and repairability
- Amphenol part numbers: 10-640000-XXX



Backshells are offered for use with Breakaway Fail Safe Connectors in three heights.



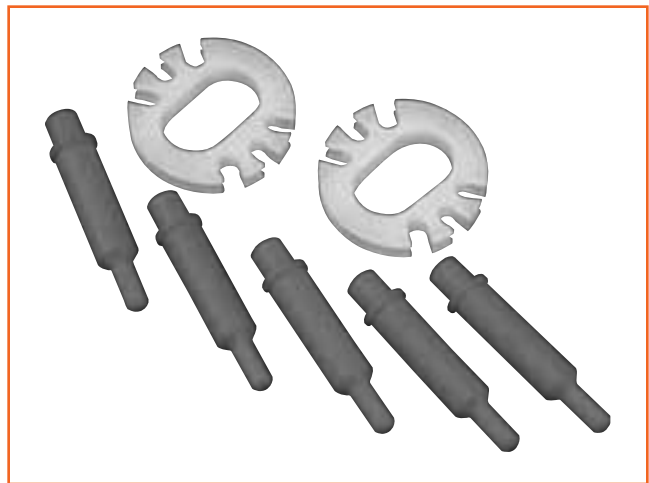
**Dummy Contacts**

- Available in size 12 and size 8
- Provide a cost effective alternative for sealing unused contact cavities
- Size 8 part number: T3-4008-59P
- Size 12 part number: T3-4012-59P

**Wire Combs**

- Available for the 25-20 insert pattern to help to stabilize and prevent contact side loading
- Amphenol part number: 21-33626-XXX

For information on how to order these accessory products for Breakaway Fail Safe connectors consult Amphenol Aerospace.

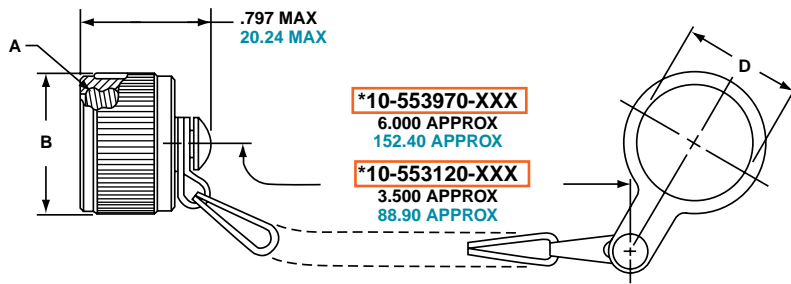
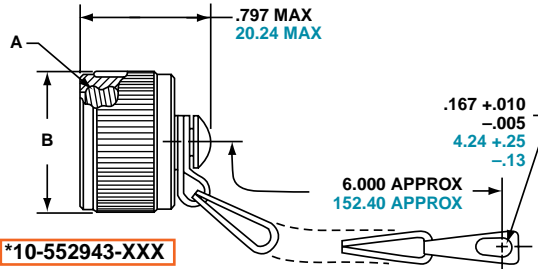
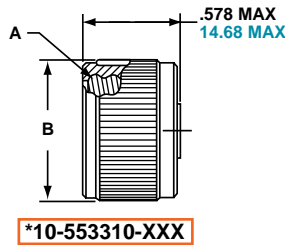


Accessory products for Breakaway Connectors: Dummy Contacts and Wire Combs

- III
- 38999
- SJT I II
- 26482 Matrix 2
- 83723 III Pyle Matrix
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

# MIL-DTL-38999, Series III TV Receptacle Protection Cap

Series III TV



\* To complete order number, add shell size and suffix number.  
For example, shell size 11 with olive drab cadmium nickel base, **10-552943-119**

Inches

Shell Size	A Thread Class 2B 0.1P-0.3L-TS	B Dia. Max.	D Dia. +.010 - .000
9	.6250	.875	.703
11	.7500	1.000	.844
13	.8750	1.125	1.016
15	1.0000	1.250	1.141
17	1.1875	1.438	1.266
19	1.2500	1.500	1.391
21	1.3750	1.625	1.516
23	1.5000	1.750	1.641
25	1.6250	1.875	1.766

Millimeters

Finish	10-No Suffix
Olive Drab, Cadmium, Nickel base	-XX9
Electroless Nickel	-XXG

Shell Size	MS Shell Size Code	B Dia. Max.	D Dia. +.25 -.00
9	A	22.23	17.86
11	B	25.40	21.44
13	C	28.58	25.81
15	D	31.75	28.98
17	E	36.53	32.16
19	F	38.10	35.33
21	G	41.28	38.51
23	H	44.45	41.68
25	J	47.63	44.86

Consult Amphenol Aerospace for availability of stainless steel protection caps.

All dimensions for reference only.  
For MS protection caps, see page 95.

III  
II  
I  
SJT

38999

26482  
Matrix 2

83723 III  
Matrix  
Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

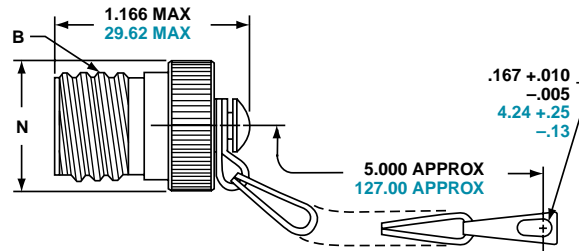
Options  
Others



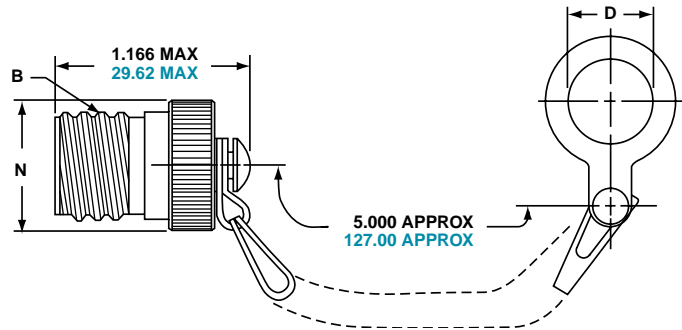
### Series III TV

- 38999 III
- SJT I II
- 26482 Matrix 2
- 83723 III Pyle Matrix
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

\*10-552944-XXX



\*10-553998-XXX



\* To complete order number, add shell size and suffix number.  
For example, shell size 11 with olive drab cadmium nickel base, 10-552944-119

Inches

Shell Size	A Thread Class 2B 0.1P-0.3L-TS	D Dia. +.010 -.000	N Dia. Max.
9	.6250	.516	.895
11	.7500	.641	1.000
13	.8750	.766	1.171
15	1.0000	.891	1.299
17	1.1875	1.016	1.436
19	1.2500	1.141	1.543
21	1.3750	1.266	1.670
23	1.5000	1.343	1.787
25	1.6250	1.516	1.914

Millimeters

Finish	10-No Suffix
Olive Drab, Cadmium, Nickel base	-XX9
Electroless Nickel	-XXG

Shell Size	MS Shell Size Code	D Dia. +.25 -.00	N Dia. Max.
9	A	13.11	22.73
11	B	16.28	25.40
13	C	19.46	29.74
15	D	22.63	32.99
17	E	25.81	36.47
19	F	28.98	39.19
21	G	32.16	42.42
23	H	34.11	45.39
25	J	38.51	48.62

Consult Amphenol Aerospace for availability of stainless steel protection caps.

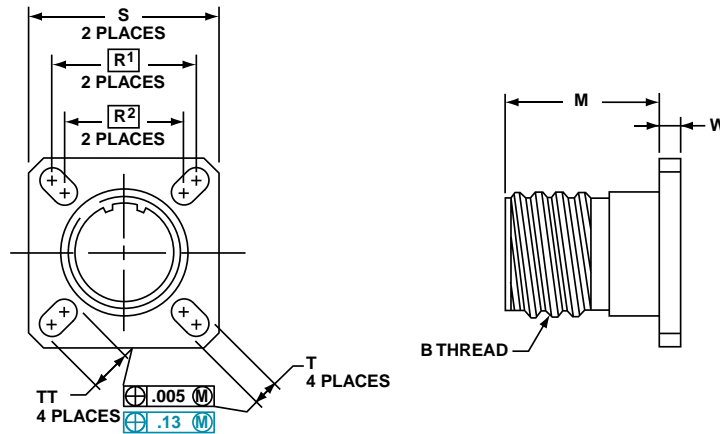
All dimensions for reference only.  
For MS protection caps, see page 95.

# MIL-DTL-38999, Series III TV Dummy Receptacle

Series III TV

Part number reference.  
See note below to complete.

\* 10-553974-XXX



\* To complete order number, add shell size and suffix number.  
For example, shell size 11 with olive drab cadmium nickel base, [10-553974-119](#)

Inches

Shell Size	MS Shell Size Coded	B Thread 0.1P-0.3L-TS (Plated)	M +.020 - .000	R <sup>1</sup>	R <sup>2</sup>	S ±.010	T ±.008 - .006	W ±.010	TT ±.008 - .006
9	A	.6250	.822	.719	.594	.938	.128	.098	.216
11	B	.7500	.822	.812	.719	1.031	.128	.098	.194
13	C	.8750	.822	.906	.812	1.125	.128	.098	.194
15	D	1.0000	.822	.969	.906	1.219	.128	.098	.173
17	E	1.1875	.822	1.062	.969	1.312	.128	.098	.194
19	F	1.2500	.822	1.156	1.062	1.438	.128	.098	.194
21	G	1.3750	.791	1.250	1.156	1.562	.128	.125	.194
23	H	1.5000	.791	1.375	1.250	1.688	.154	.125	.242
25	J	1.6250	.791	1.500	1.375	1.812	.154	.125	.242

Millimeters

Finish	10-No Suffix
Olive Drab, Cadmium, Nickel base	-XX9
Electroless Nickel	-XXG

Shell Size	MS Shell Size Coded	M +.51 - .00	R <sup>1</sup>	R <sup>2</sup>	S ±.25	T +.20 - .15	W ±.25	TT +.20 - .15
9	A	20.88	18.26	15.09	23.83	3.25	2.49	5.49
11	B	20.88	20.62	18.26	26.19	3.25	2.49	4.93
13	C	20.88	23.01	20.62	28.58	3.25	2.49	4.93
15	D	20.88	24.61	23.01	30.96	3.25	2.49	4.93
17	E	20.88	26.97	24.61	33.32	3.25	2.49	4.93
19	F	20.88	29.36	26.97	36.53	3.25	2.49	4.93
21	G	20.09	31.75	29.36	39.67	3.25	3.18	4.93
23	H	20.09	34.93	31.75	42.88	3.91	3.18	6.15
25	J	20.09	38.10	34.93	46.02	3.91	3.18	6.15

All dimensions for reference only

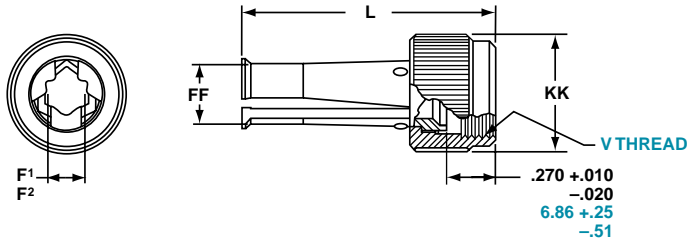
Designates true position dimensioning

- III 38999
- II
- I
- SJT
- 26482 Matrix 2
- 83723 III Matrix Pyle
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

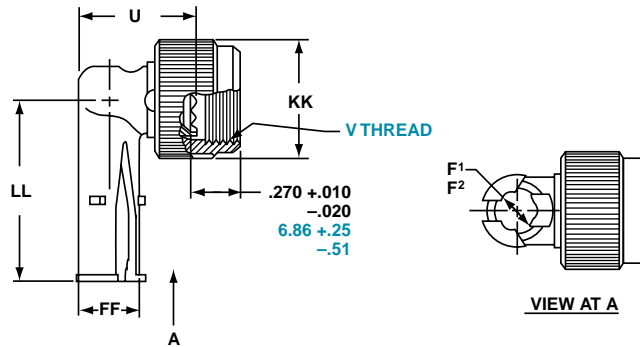
### Series III TV

- 38999 III
- SJT I II
- 26482 Matrix 2
- 83723 III Pyle Matrix
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

**Straight Style**  
\*10-552681-XXX metal coupling



**90 Degree Elbow Style**  
\*10-552682-XXX metal coupling



\* To complete order number, see suffix chart below. Examples:  
Clamp with metal coupling nut for shell size 11 with olive drab cadmium nickel base, 10-552681-119.

Inches								
Shell Size	MS Shell Size Code	F <sup>1</sup> Min. Dia. Cable	F <sup>2</sup> Max. Dia. Cable	L Max.	U Max.	FF Dia. Max.	KK Dia. Max.	LL Max.
9	A	.094	.203	1.431	.656	.347	.629	1.015
11	B	.141	.250	1.431	.688	.394	.756	1.062
13	C	.172	.323	1.431	.750	.467	.883	1.125
15	D	.203	.422	1.431	.859	.566	1.011	1.328
17	E	.234	.500	1.431	.937	.644	1.138	1.392
19	F	.265	.562	1.431	1.000	.706	1.265	1.453
21	G	.297	.625	1.492	1.062	.769	1.393	1.609
23	H	.328	.703	1.492	1.141	.847	1.488	1.656
25	J	.359	.765	1.492	1.203	.909	1.616	1.719

Finish	10-No Suffix
Olive Drab, Cadmium Nickel Base	-XX9
Electroless Nickel	-XXG

Millimeters										
Shell Size	MS Shell Size Code	F <sup>1</sup> Min. Dia. Cable	F <sup>2</sup> Max. Dia. Cable	L Max.	U Max.	V Thread Metric	FF Dia. Max.	KK Dia. Max.	LL Max.	
9	A	2.39	5.16	36.35	16.66	M12X1-6H	8.81	15.98	25.78	
11	B	3.58	6.35	36.35	17.48	M15X1-6H	10.01	19.20	26.97	
13	C	4.37	8.20	36.35	19.05	M18X1-6H	11.86	22.43	28.58	
15	D	5.16	10.72	36.35	21.82	M22X1-6H	14.38	25.68	33.73	
17	E	5.94	12.70	36.35	23.80	M25X1-6H	16.36	28.91	35.36	
19	F	6.73	14.27	36.35	25.40	M28X1-6H	17.93	32.13	36.91	
21	G	7.54	15.88	37.90	26.97	M31X1-6H	19.53	35.38	40.87	
23	H	8.83	17.86	37.90	28.98	M34X1-6H	21.51	37.80	42.06	
25	J	9.12	19.43	37.90	30.56	M37X1-6H	23.09	41.05	43.66	

All dimensions for reference only.

### 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	NA	NA	NA
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

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.

\*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 MIL-DTL-38999 Series III connectors, see the High Speed Contact section of this catalog consult Amphenol, Sidney, NY

\*\* For use with M17/M176-00002 cable. For other contact options available for use in Tri-Start connectors, (wire wrap, thermocouple, fiber optic) consult Amphenol.

### 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	-

### PLASTIC PROTECTION CAPS

Shell Size	Plug	Receptacle
9	10-70506-14	10-70500-10
11	10-70506-16	10-70500-12
13	10-70500-18	10-70500-14
15	10-70500-20	10-70500-16
17	10-70500-22	10-70500-19
19	10-70500-24	10-70500-20
21	10-70524-1	10-70500-22
23	10-70506-28	10-70500-24
25	10-70500-28	10-70524-1

### MS METAL PROTECTION CAPS

Shell Size	MS Shell Size Code	MS Plug Protection Cap	MS Receptacle Protection Cap
9	A	D38999/32W9X*	D38999/33W9X*
11	B	D38999/32W11X*	D38999/33W11X*
13	C	D38999/32W13X*	D38999/33W13X*
15	D	D38999/32W15X*	D38999/33W15X*
17	E	D38999/32W17X*	D38999/33W17X*
19	F	D38999/32W19X*	D38999/33W19X*
21	G	D38999/32W21X*	D38999/33W21X*
23	H	D38999/32W23X*	D38999/33W23X*
25	J	D38999/32W25X*	D38999/33W25X*

\* To complete order number, replace X with applicable letter as follows:  
 R - designates eyelet type  
 N - designates washer type

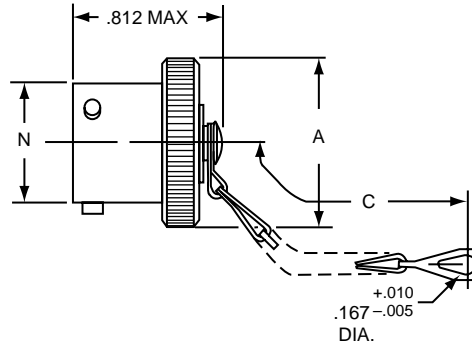
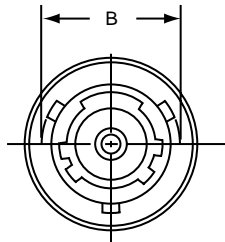
MS metal protection caps are supplied with service class W which designates corrosion resistant olive drab cadmium plate aluminum. Consult Amphenol, Sidney, NY for more detailed information on ordering MS Metal protection caps.

### SEALING PLUGS

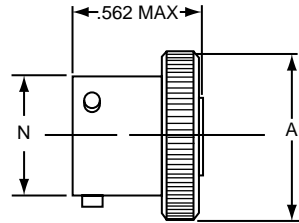
Contact Size	Commercial No.	Military No.
8 (Coax)	10-482099-8	N/A
8 (Twinax)	T3-4008-59P	N/A
8 (Power)	10-405996-83	MS27488-8-3
10 (Power)	T3-4010-59P	M85049/81-10
12	10-405996-122	MS27488-12-2
16	10-405996-162	MS27488-16-2
20	10-405996-202	MS27488-20-2
22D	10-405996-222	MS27488-22-2
4	10-405996-43	MS27488-4-3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

- III 38999
- II
- I
- SJT
- Matrix 2 26482
- Matrix Pyle 83723 III
- Crimp Rear Release Matrix 5015
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

### Series II JT



\* **10-547138-XXX (MS27510XXXC)**



\* **10-241853-XXX (MS27510XXXA)**

For MS stamping identification, accessories must be ordered by MS part number.

If ordered by 10- part number, they will be stamped with said number.

\* To complete order number, add shell size and suffix number.

For example, shell size 10 with cadmium plate, nickel base would be **10-241853-107, MS27510A10C or MS27510A10A).**

Shell Size	A Dia. Max.	A' Dia. Max.	B +.000 -.016	C Approx.	N Dia. +.001 -.005
8	.719	.703	.563	3.000	.473
10	.844	.828	.680	3.000	.590
12	1.000	.984	.859	3.500	.750
14	1.125	1.109	.984	3.500	.875
16	1.250	1.234	1.108	3.500	1.000
18	1.375	1.359	1.233	3.500	1.125
20	1.500	1.484	1.358	4.000	1.250
22	1.625	1.609	1.483	4.000	1.375
24	1.750	1.734	1.610	4.000	1.500

Finish	10-Number Suffix	MS Number Suffix with chain	MS Number Suffix without chain
Chromate treat	-XX0		
Anodic coating	-XX5	CXXC	CXXA
Cadmium Plate Nickel base	-XX7	AXXC	AXXA
Olive Drab, Cadmium, Nickel base	-XX9	BXXC	BXXA
Electroless Nickel	-XXG	FXXC	FXXA

All dimensions for reference only.

38999  
SJT I II III

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

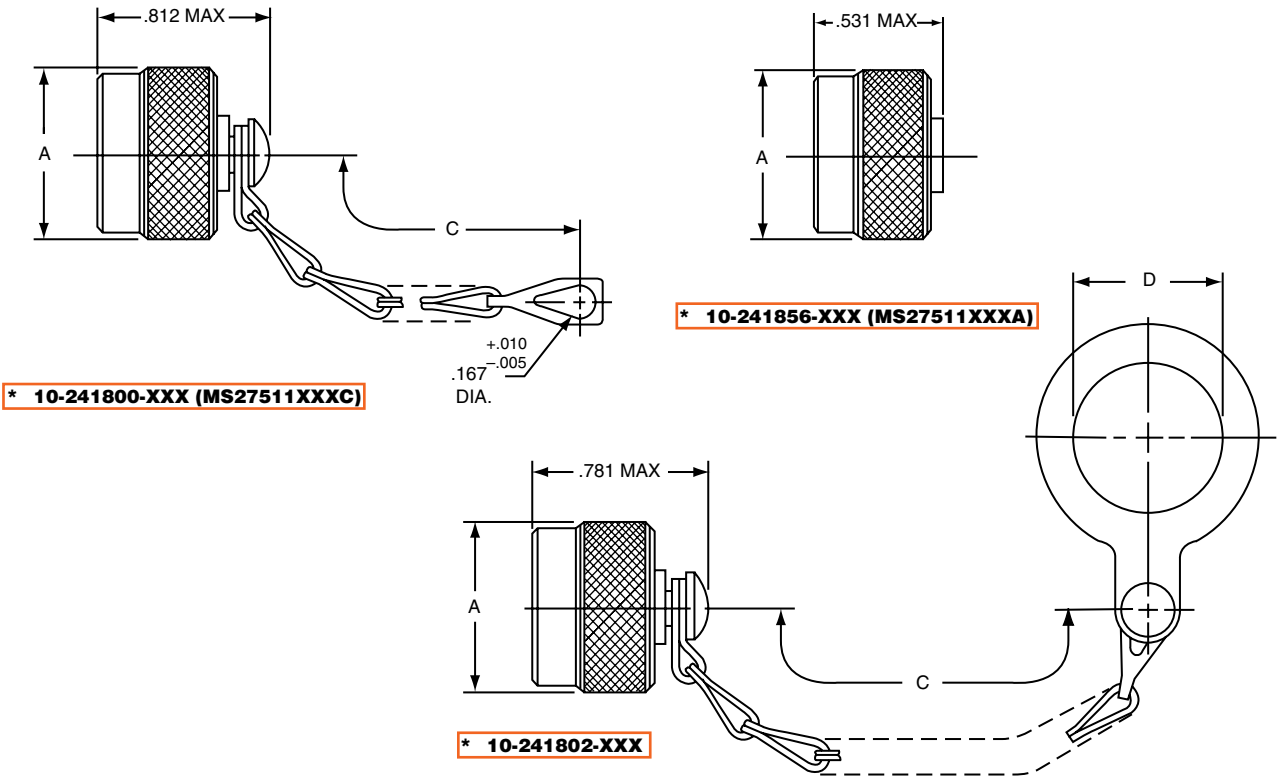
High Speed  
Contacts

Options  
Others

# MIL-DTL-38999, Series II JT

## Receptacle Protection Cap

Series II JT



\* 10-241800-XXX (MS27511XXXC)

\* 10-241856-XXX (MS27511XXXA)

\* 10-241802-XXX

For MS stamping identification, accessories must be ordered by MS part number.

If ordered by 10- part number, they will be stamped with said number.

\* To complete order number, add shell size and suffix number.

For example, shell size 10 with cadmium plate, nickel base would be 10-241802-107, MS27511A10C, MS27511A10A

Shell Size	A Dia. Max.	C Approx.	D +.010 -.000
8	.719	3.000	.891
10	.844	3.000	1.016
12	1.000	3.500†	1.141
14	1.125	3.500	1.266
16	1.250	3.500	1.391
18	1.375	3.500	1.516
20	1.500	4.000	1.641
22	1.625	4.000	1.766
24	1.750	4.000	1.891

†3.000 for MS27511

All dimensions for reference only.

Finish	10-Number Suffix	MS Number Suffix with chain	MS Number Suffix without chain
Chromate treat	-XX0		
Anodic Coating	-XX5	CXXC	CXXA
Cadmium Plate Nickel Base	-XX7	AXXC	AXXA
Olive Drab, Cadmium, Nickel base	-XX9	BXXC	BXXA
Electroless nickel	-XXG	FXXC	FXXA

III  
II  
I  
SJT

38999  
26482  
Matrix 2

83723 III  
Matrix  
Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

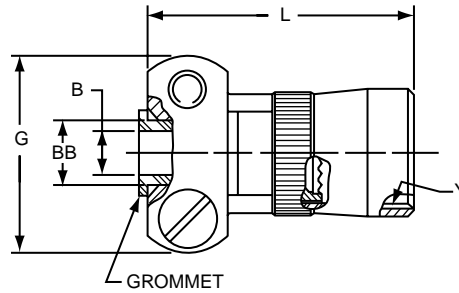
Options  
Others



Strain relief (crimp type)

Series II JT

Series I LJT



\* 10-405982-XXX (MS27506XXX-2 reference M85049/49)

For MS stamping identification, accessories must be ordered by MS part number.

If ordered by 10-part number, they will be stamped with said number.

\*To complete order number, add shell size and suffix number.

Finish	10-Number Suffix	MS27506 Suffix	M85049/49 Suffix
Chromate treat	-XX0		NA
Anodic coating	-XX5	CXX-2	(-2-XXA)
Cadmium plate nickel base	-XX7	AXX-2	NA
Olive drab, cadmium, nickel base	-XX9	BXX-2	(-2-XXW)
Electroless nickel	-XXG	FXX-2	(-2-XXN)

For example: Shell size 10 with cadmium plate, nickel base would be

10-405982-107 or M85049/49-2-10W

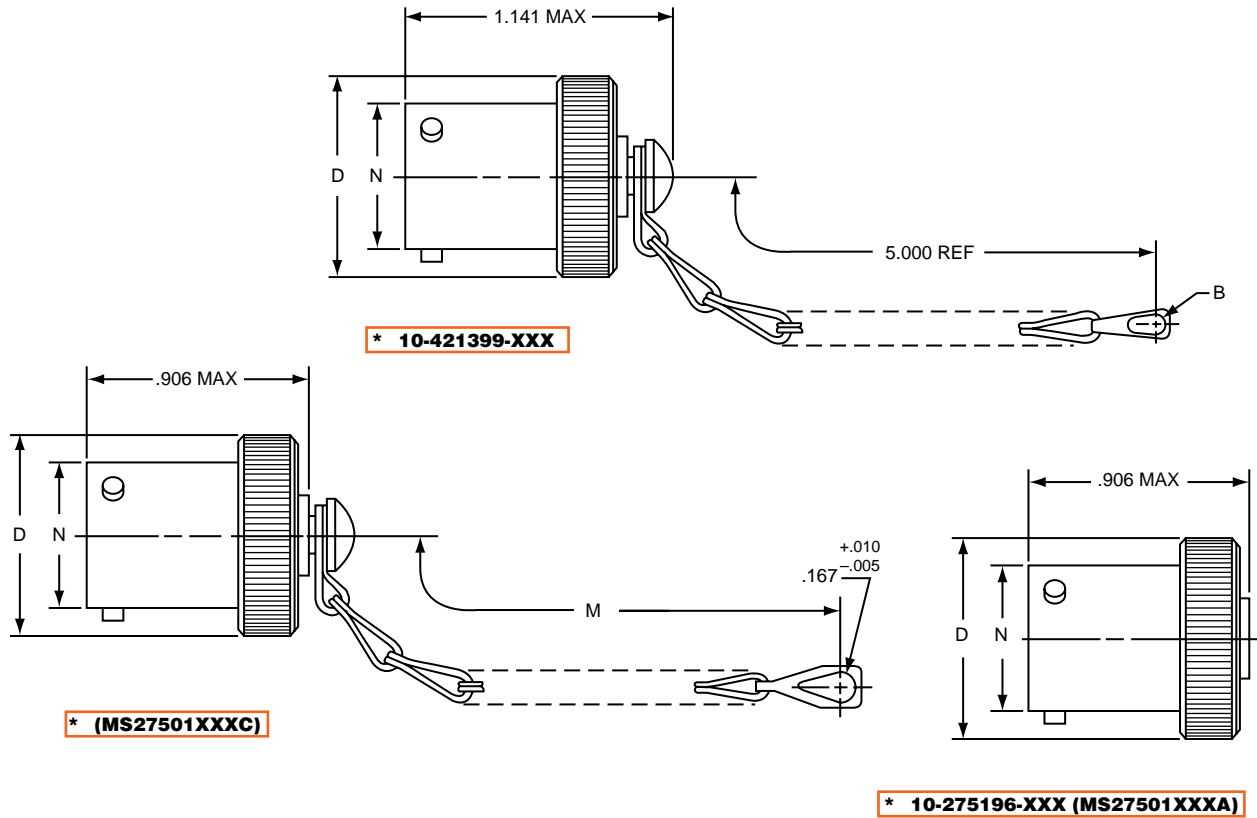
Shell Size	B Dia. +.010-.025	G Max.	L Max.	Y Thread (Modified)		BB Dia. +.000 -.011	Screw Size
				Size Class 2B	Modified Minor Dia.		
8	.125	.775	.984	.4375-28UNEF	.399 - .405	.250	6-32UNC
10	.188	.837	.984	.5625-24UNEF	.524 - .529	.312	6-32UNC
12	.312	.963	.984	.6875-24UNEF	.649 - .654	.438	6-32UNC
14	.375	1.087	1.234	.8125-20UNEF	.766 - .771	.562	6-32UNC
16	.500	1.150	1.234	.9375-20UNEF	.891 - .896	.625	6-32UNC
18	.625	1.400	1.234	1.0625-18UNEF	1.002 - 1.007	.750	8-32UNC
20	.625	1.400	1.234	1.1875-18UNEF	1.135 - 1.140	.750	8-32UNC
22	.750	1.587	1.359	1.3125-18UNEF	1.252 - 1.257	.938	8-32UNC
24	.800	1.681	1.281	1.4375-18UNEF	1.377 - 1.382	1.000	8-32UNC

All dimensions for reference only.

Note: For solder type cable clamp 10-241055-XXX (M85049/49) consult Amphenol, Sidney, NY.

# MIL-DTL-38999, Series I LJT Plug Protection Cap

Series I LJT



\*To complete order number, add shell size and suffix number.

For example, shell size 11 with cadmium plate, nickel base would be [10-421399-117](#), [MS27501A11C](#), [MS27501A11A](#).

Shell Size	B Dia. Ref	D Dia. Max.	M ±.250	N Dia. +.001 - .005
9	.180	.812	3.000	.572
11	.180	.938	3.000	.700
13	.180	1.062	3.500	.850
15	.180	1.188	3.500	.975
17	.180	1.312	3.500	1.100
19	.209	1.438	3.500	1.207
21	.209	1.562	4.000	1.332
23	.209	1.688	4.000	1.457
25	.209	1.812	4.000	1.582

Finish	10- Number Suffix	MS Number Suffix with chain	MS Number Suffix without chain
Chromate treat	-XX0		
Anodic coating	-XX5		
Cadmium Plate Nickel base	-XX7	AXXC	AXXA
Olive Drab, Cadmium, Nickel base	-XX9	BXXC	BXXA
Electroless nickel	-XXG	FXXC	FXXA

All dimensions for reference only.

- III 38999 I SJT
- Matrix 2 26482
- Matrix Pyle 83723 III
- Crimp Rear Release Matrix 5015
- Pyle 26500
- Circuit Board Printed
- Transient EMI Filter
- Fiber Optics
- High Speed Contacts
- Options Others

**Series I LJT**

38999

SJT I II III

26482

Matrix 2

83723 III

Matrix Pyle

5015

Crimp Rear Release Matrix

26500 Pyle

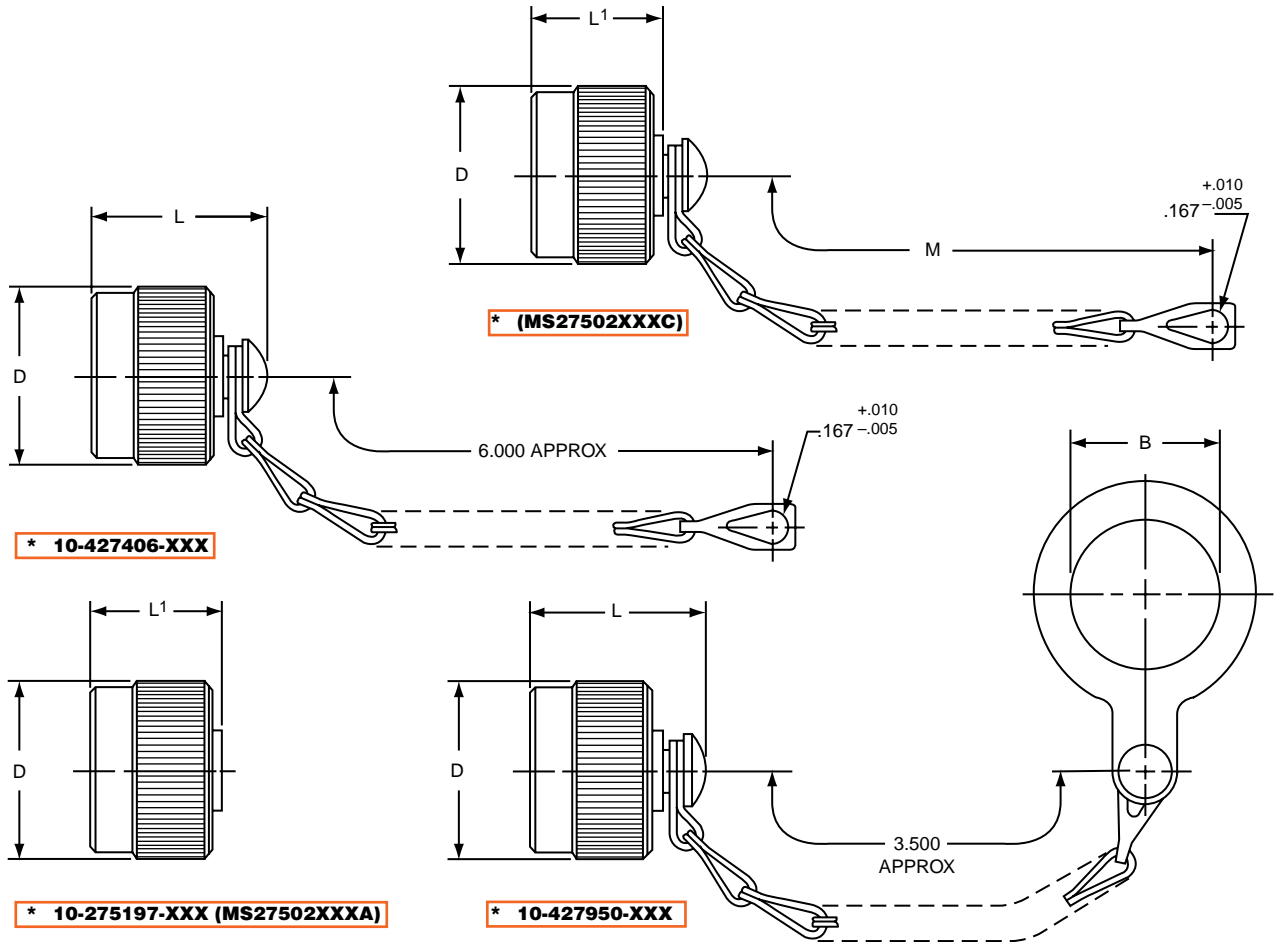
Printed Circuit Board

EMI Filter Transient

Fiber Optics

High Speed Contacts

Options Others



For MS stamping identification, accessories must be ordered by MS part number.

If ordered by 10- part number, they will be stamped with said number.

\*To complete order number, add shell size and suffix number.

For example, shell size 11 with cadmium plate, nickel base would be **10-427406-117, MS27502A11C, MS27502A11A.**

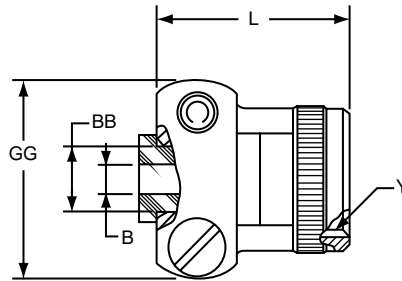
Shell Size	B Dia. +.010 - .000	D Dia. Max.	L Max.	L' Max	M ±.250
9	.703	.844	1.070	.844	3.000
11	.844	.969	1.070	.844	3.000
13	1.016	1.125	1.070	.844	3.500
15	1.141	1.250	1.070	.844	3.500
17	1.266	1.406	1.070	.844	3.500
19	1.391	1.500	1.070	.844	3.500
21	1.516	1.625	1.070	.844	4.000
23	1.641	1.750	1.070	.844	4.000
25	1.766	1.875	1.089	.875	4.000

Finish	10-Number Suffix	MS Number Suffix with chain	MS Number Suffix without chain
Chromate treat	-XX0		
Anodic coating	-XX5	CXXC	CXXA
Cadmium Plate Nickel base	-XX7	AXXC	AXXA
Olive Drab, Cadmium, Nickel base	-XX9	BXXC	BXXA
Electroless Nickel	-XXG	FXXC	FXXA

All dimensions for reference only.

# MIL-DTL-38999, Series I LJT Strain Relief (Solder Type)

Series I LJT



\* 10-436792-XXX

For military type cable clamp see MS27506 or M85049/49 on page 98.

\*To complete order number, add shell size and suffix number.

Finish	10-Number Suffix
Chromate treat	-XX0
Anodic coating	-XX5
Cadmium Plate Nickel base	-XX7
Olive Drab, Cadmium, Nickel base	-XX9
Electroless Nickel	-XXG

For example: Shell size 11 with cadmium plate, nickel base would be 10-436792-117.

Shell Size	B Dia. +.010 - .025	L Max.	Y Thread Class 2B (Plated)	GG Max.	BB Dia. +.000 - .011
9	.125	.859	.4375-28 UNEF	.775	.250
11	.188	.859	.5625-24 UNEF	.837	.312
13	.312	.859	.6875-24 UNEF	.963	.438
15	.375	1.109	.8125-20 UNEF	1.087	.562
17	.500	1.109	.9375-20 UNEF	1.150	.625
19	.625	1.109	1.0625-18 UNEF	1.400	.750
21	.625	1.109	1.1875-18 UNEF	1.400	.750
23	.750	1.234	1.3125-18 UNEF	1.587	.938
25	.800	1.234	1.4375-18 UNEF	1.681	1.000

All dimensions for reference only.

III  
II  
I  
SJT

38999  
26482  
Matrix 2

83723 III  
Matrix  
Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

**Series II JT**

**Series I LJT**

**JT/LJT Crimp Contacts**

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

**THERMOCOUPLE CONTACTS**

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, Sidney, N.Y.

**THERMOCOUPLE CONTACTS PYLE VERSION**

Contact Size	Pins (JT/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

**PLASTIC PROTECTION CAPS**

Shell Size	Plug	Receptacle
8	10-70500-10	10-70506-10S
9	10-70506-14	10-70500-10
10	10-70506-14	10-70506-12
11	10-70506-16	10-70500-12
12	10-70506-16	10-70506-14
13	10-70506-18	10-70500-14
14	10-70506-18	10-70506-16
15	10-70506-20	10-70500-16
16	10-70506-20	10-70506-18
17	10-70506-22	10-70500-18
18	10-70506-22	10-70506-20
19	10-70506-24	10-70500-20
20	10-70506-24	10-70506-22
21	10-70576-24	10-70500-22
22	10-70576-24	10-70506-24
23	10-70506-28	10-70500-24
24	10-70506-28	10-70576-24
25	10-558651-25	10-70506-28

**SEALING PLUGS**

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	10-405996-12	MS27488-12
16	10-405996-16	MS27488-16
20	10-405996-20	MS27488-20
22	10-405996-22	MS27488-22
22M	10-405996-22	MS27488-22
22D	10-405996-22	MS27488-22

38999  
SJT I II III

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

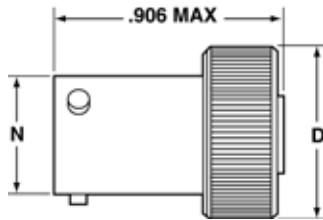
Fiber Optics

High Speed  
Contacts

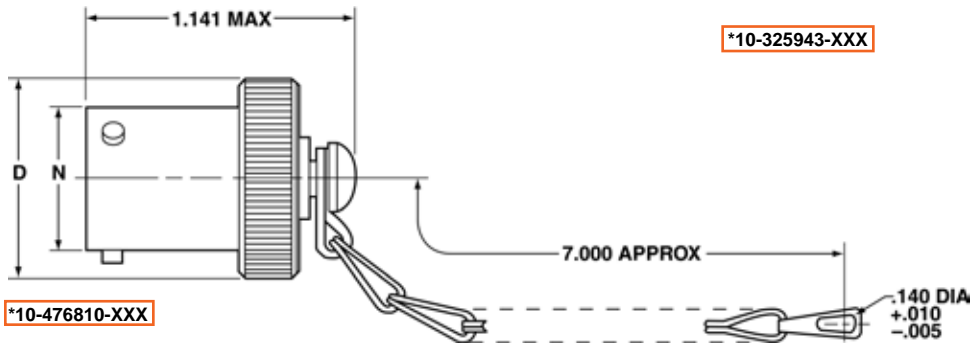
Options  
Others

SJT

### PLUG PROTECTION CAP

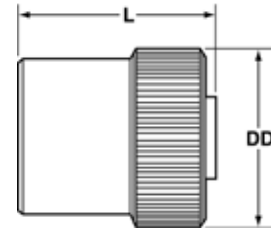


\*10-476801-XXX



\*10-476810-XXX

### RECEPTACLE PROTECTION CAP



\*10-325943-XXX

\*To complete order number, add shell size and suffix number. For example, shell size 10 with bright cadmium plated nickel base, [10-476810-107](#).

Plug Shell Size	D Dia. Max.	N Dia. +.001 - .005
8	.688	.473
10	.812	.590
12	.969	.750
14	1.094	.875
16	1.219	1.000
18	1.344	1.125
20	1.469	1.250
22	1.594	1.375
24	1.719	1.500

All dimensions for reference only

\*To complete order number, add shell size and suffix number. For example, shell size 10 with bright cadmium plated nickel base, [10-325943-107](#).

Receptacle Shell Size	DD Dia. Max.	L Max.
8	.734	.828
10	.844	.828
12	1.016	.828
14	1.141	.828
16	1.265	.828
18	1.391	.828
20	1.500	.828
22	1.625	.828
24	1.750	.859

Finish  
 Bright Cadmium Plated Nickel Base  
 Anodic Coating (Alumilite)  
 Chromate Treated (Iridite 14-2)  
 Olive Drab Cadmium Plate Nickel Base  
 Electroless Nickel Coating

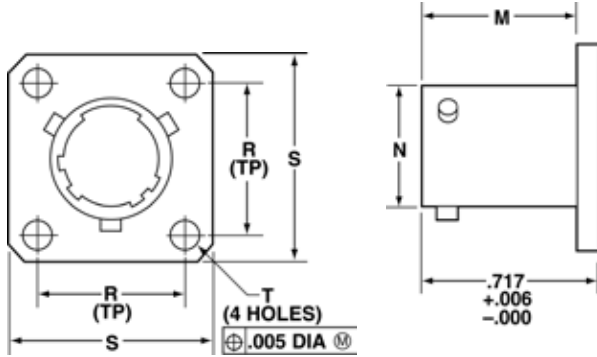
Suffix  
 XX7  
 XX5  
 XX0  
 XX9  
 XXG

III	38999
II	SJT
I	26482 Matrix 2
SJT	83723 III Matrix Pyle
	5015 Crimp Rear Release Matrix
	26500 Pyle
	Printed Circuit Board
	EMI Filter Transient
	Fiber Optics
	High Speed Contacts
	Options Others



SJT

### DUMMY RECEPTACLE



\*10-476807-XXX

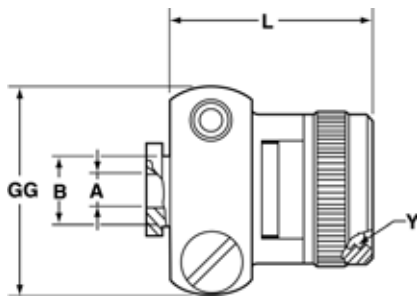
Finish	Suffix
Bright Cadmium Plated Nickel Base	XX7
Anodic Coating (Alumilite)	XX5
Chromate Treated (Iridite 14-2)	XX0
Olive Drab Cadmium Plate Nickel Base	XX9
Electroless Nickel Coating	XXG

\* To complete order number, add shell size and suffix number. For example, shell size 10 with bright cadmium plated nickel base, 10-476807-107.

Dummy Receptacle Shell Size	D Dia. Max.	L Max.
8	.734	.828
10	.844	.828
12	1.016	.828
14	1.141	.828
16	1.265	.828
18	1.391	.828
20	1.500	.828
22	1.625	.828
24	1.750	.859

All dimensions for reference only

### CABLE CLAMP



\*10-476808-XXX

Finish	Suffix
Bright Cadmium Plated Nickel Base	XX7
Anodic Coating (Alumilite)	XX5
Chromate Treated (Iridite 14-2)	XX0
Olive Drab Cadmium Plate Nickel Base	XX9
Electroless Nickel Coating	XXG

\* To complete order number, add shell size and suffix number. For example, shell size 10 with bright cadmium plated nickel base, 10-476808-107.

Cable Clamp Shell Size	A Dia. +.010 - .025	B Dia. +.000 - .011	L Max.	Y Thread Class 2B UNEF (Plated)	GG Max.
8	.125	.250	.922	.4375-28	.775
10	.188	.312	.922	.5625-24	.837
12	.312	.438	.922	.6875-24	.963
14	.375	.562	1.172	.8125-20	1.087
16	.500	.625	1.172	.9375-20	1.150
18	.625	.750	1.172	1.0625-18	1.400
20	.625	.750	1.172	1.1875-18	1.400
22	.750	.938	1.297	1.3125-18	1.587
24	.800	1.000	1.297	1.4375-18	1.681

All dimensions for reference only

SJT

38999  
III  
II  
I  
SJT

26482  
Matrix 2

83723 III  
Matrix  
Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

### CONTACTS & SEALING PLUGS

Contact Size	SJT Pins	SJT Sockets	Sealing Plugs
8 (Coax)	21-33102-21**	21-33101-21**	10-482099-8
8 (Twinax)	21-33190-529†	21-33191-530†	10-482099-8
10 (Power)	10-251415-105	10-407035-105	Not Available
12	10-251415-12H	10-407035-125	10-405996-12 Yellow
16	10-251415-165	10-407035-165	10-405996-16 Blue
20	10-251415-205	10-407035-205 10-497403-205††	10-405996-20 Red
22*	10-251415-225	10-407035-225	10-405996-22 Black
22M*	10-251415-235	10-407035-235	10-405996-22 Black
22D	10-251415-725	10-407035-725	10-405996-22 Black

Above part numbers include standard finish designation – gold plating over suitable underplate in accordance with SAE AS39029. For other finish variations, consult Amphenol, Sidney, NY.

\* Inactive for new design.

\*\* 21-33102-21 and 21-33101-21 are 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 SJT connectors, see catalog 12-130 or consult Amphenol, Sidney, NY.

† 21-33190-529 and 21-33191-530 are for use with M17/176-00002 cable.

†† Optional design – see slash sheet MS39029.

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

### PLASTIC PROTECTION CAPS

Shell Size	Plug	Receptacle
8	10-70500-10	10-70506-10S
10	10-70500-14	10-70506-12
12	10-70500-16	10-70506-14
14	10-70500-18	10-70506-16
16	10-70500-20	10-70506-18
18	10-70500-22	10-70506-20
20	10-70500-24	10-70506-22
22	10-70524-1	10-70506-24
24	10-70506-28	10-70524-1

for Flex Print or PC Board

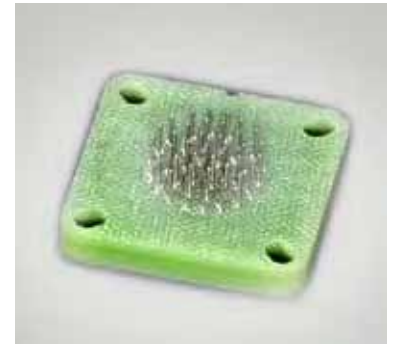
Series III TV

Series II JT

Series I LJT

**Mounts to all MIL-DTL-38999 and  
\*MIL-DTL-26482 Connectors**

Termination of PC tail connectors to a flex print or a printed circuit board represents a major cost in the manufacturing process for users. When adding flex or printed circuit board assemblies to an expensive filter or filter/transient protection connector, the total cost of a failed solder joint, a bent pin, or an unanticipated electrical failure becomes prohibitive. The universal header assembly from Amphenol provides for easy separation of the connector from the board on these occasions. The header assembly is comprised of a short pin/socket contact. The tail end of the contact is soldered to the through hole of the flex or printed circuit board. The socket is embedded in the insulator, making electrical contact with the printed circuit tail of the connector.



**Headers provide easy separation of the connector from the PC board.**

**Header Assemblies Provide Cost Savings**

Incorporation of the header assembly provides the user with time and cost saving potentials. These header assemblies can be vapor phase or wave soldered to flex or printed circuit boards prior to the receipt of the EMI/EMP connector. Headers can be installed to standard connectors, allowing for electrical testing that would adversely affect the sensitive diodes, MOV's or capacitors in the EMI/EMP connectors. Expensive connector assemblies can be easily removed from and reattached to the header assembly as the manufacturing process dictates.

**Mounting Applications**

Shell modifications are recommended, but are not necessary. The header assembly can be attached to connectors with standard flange placement or directly to the circuit board. The ideal application would involve either a single flange moved all the way to the rear of the connector or a double flange. Cinch nuts can be installed in either flange to allow easier mounting to the panel or the header assembly. The forward flange would mount the connector to the panel; the rear flange would be used to mount the header assembly. Various types of captivated or loose attaching screws can be utilized for unique applications.

Amphenol universal headers are slotted to allow mounting to all series of MIL-DTL-38999 or MIL-DTL-26482\* connectors without special alterations. They are of similar dimension as the flange of the mounting connector and are approximately .185 inches (4.70 mm) thick.

\* For information on Header Assemblies for MIL-DTL-26482 connector consult Amphenol, Sidney NY.

**Cylindrical Configuration**

- 3 PCB stickout dimensions are available.
- Size 22 contacts use .175 thick headers
- Size 16 to 20 contacts use .195 thick headers
- Consult Amphenol, Sidney NY for additional configurations.
- Headers for cylindrical connectors accommodate up to 128 pins. For MIL-DTL-38999 insert arrangements chart see pages 4-7 and insert drawings on pages 8-14.

**Mounting to Rectangular ARINC Connectors**

- Headers for ARINC connector arrangements accommodate up to 150 pins
- Consult Amphenol, Sidney, NY for ARINC configurations and detailed dimensions.

**Materials**

- Body is molded or machined from FR-4.
- Electrical engagement areas of the header contact are plated with .00003 inches minimum of gold over .00005 inches minimum of nickel.

See drawing of standard header on next page.

38999  
SJT

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

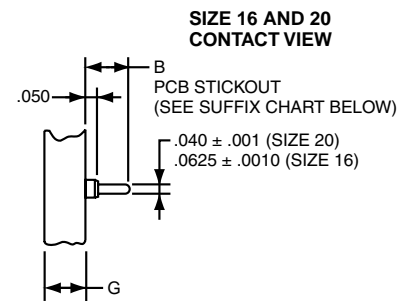
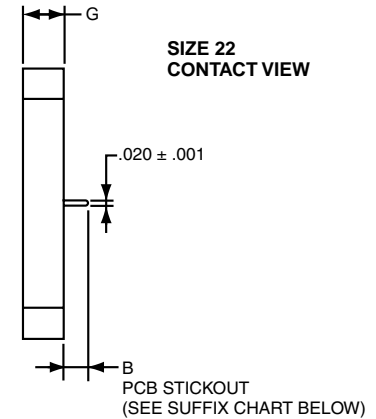
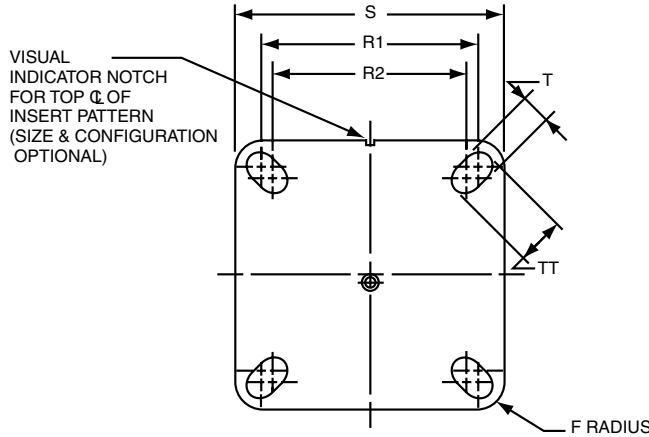
Options  
Others

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

## Universal "Header Assembly" for Flex Print or PC Board Connectors



The drawing below shows the standard header assembly for use with MIL-DTL-38999 connectors. Consult Amphenol Aerospace, Sidney NY for drawings of headers for ARINC configurations.



Assembly Part Number	Shell Size	F Radius	G ± .005	S ± .005	T + .008 - .006	R1 TP†	R2 TP†	TT + .008 - .006
21-904008-XX()	8/9	.094		.938	.128	.719	.594	.216
21-904010-XX()	10/11	.094		1.031	.128	.812	.719	.194
21-904012-XX()	12/13	.094		1.125	.128	.906	.812	.194
21-904014-XX()	14/15	.125		1.219	.128	.969	.906	.173
21-904016-XX()	16/17	.125		1.312	.128	1.062	.969	.194
21-904018-XX()	18/19	.125		1.438	.128	1.156	1.062	.194
21-904020-XX()	20/21	.125		1.562	.128	1.250	1.156	.194
21-904022-XX()	22/23	.125		1.688	.154	1.375	1.250	.242
21-904024-XX()	24/25	.125		1.812	.154	1.500	1.375	.242

See Suffix Chart

Assemblies containing Size 22 contacts only: .175  
Assemblies containing Size 16 or 20 contacts: .195

† TP designates true position dimensioning.

NOTE:  
Size 22 accepts .018 to .022 dia. PCB tails.  
Size 16 accepts .048 to .064 dia. PCB tails.  
Size 20 accepts .037 to .043 dia. PCB tails.

### HOW TO ORDER INFORMATION

#### For Header Assembly with MIL-DTL-38999 Connectors

Use coded number as follows:

**21-9040 XX - XX X**

Designates Amphenol Header Assembly \_\_\_\_\_  
Shell size designation for MIL-DTL-38999 Series I, II, III and IV see Suffix chart. \_\_\_\_\_  
Arrangement number - See MIL-STD-1560 or MIL-STD-1669. See insert availability charts on pages 4-7. \_\_\_\_\_  
Contact PCB Stickout designation See Suffix chart. \_\_\_\_\_

For how to order information on adapters to be used with ARINC connectors, consult Amphenol, Sidney NY.

### ASSEMBLY NUMBER SUFFIX CHART

Shell Size Designation*	Arrangement Number Suffix***	Contact PCB Stickout**	
		Suffix	B ± .015 Stickout
08	Insert Arrangement Suffix from MIL-STD-1560 or MIL-STD-1669	1	.120
10		2	.185
12		3	.270
14			
16			
18			
20			
24			

\*Shell size designation for MIL-DTL-38999 Series I, II, III and IV and MIL-DTL-26482 Series 1 and 2.

Examples: Shell size 9 use 08. Shell size 25 use 24.

\*\* Size 22 contacts available in all 3 stickout lengths. Size 16 and 20 contacts available only in .185 and .270 lengths.

\*\*\* Insert arrangement 14-97 and 15-97 are not available at this time. Consult Amphenol, Sidney NY for information.



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[MS27505E11B99A](#) [MS27505E11B99P](#) [MS27505E11F35P](#) [MS27505E11F35S](#) [MS27505E13B35A](#)  
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