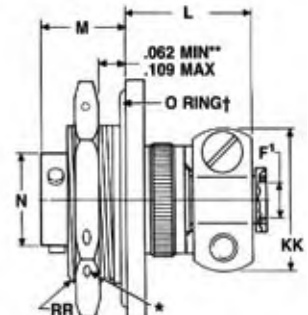
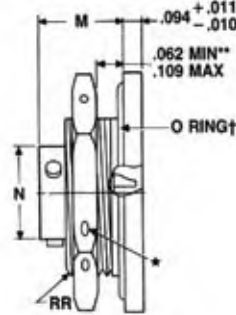
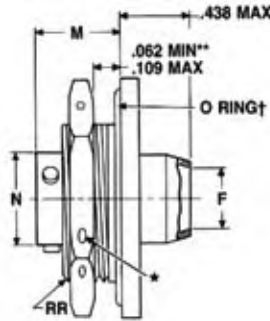
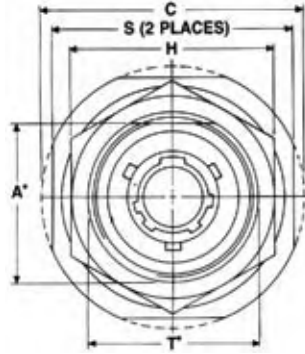


38999 III  
SJT I  
26482 Matrix 2  
83723 III Pyle Matrix  
5015 Crimp Rear Release Matrix  
26500 Pyle Printed Circuit Board  
EMI Filter Transient  
Fiber Optics  
High Speed Contacts  
Options Others

**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

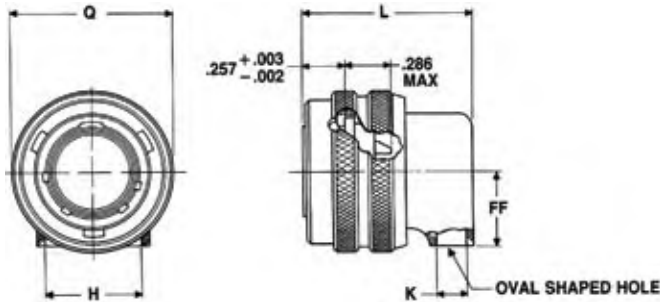
\*JT07A-XX-XXX  
\*JT07C-XX-XXX  
\*JTN07A-XX-XXX  
\*JTN07C-XX-XXX

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

| Shell Size | A*<br>+.000<br>-.010 | C<br>Max. | F<br>Min. | F1<br>+.010<br>-.025 | H<br>+.017<br>-.016 | L<br>Max. | M<br>±.005 | N<br>+.001<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | KK<br>Max. | RR<br>Thread<br>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<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. | FF<br>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



## TABLE OF CONTENTS

### Combined MIL-DTL-38999 Series I, II, III

- Shell Size & Insert Arrangements Availability . . . . . 4-7
- Insert Arrangement Drawings . . . . . 8-14
- Specifications - Contact Ratings, Service Ratings, Finish Data . . . . . 15, 16

### MIL-DTL-38999, Series II JT and Series I LJT

- Features and Benefits . . . . . 45
- How to Order (Commercial). . . . . 46-48
- How to Order (Military). . . . . 49, 50

### LJT Shell Styles:

- Table of Contents. . . . . 67
- Crimp Wall Mounting Receptacle LJT00R (MS27466) . . . . . 68
- Crimp Wall Mount Recept. for Back Panel Mounting LJTPQ00R (MS27656) . . . . . 69
- Crimp Line Receptacle LJT01R . . . . . 70
- Crimp Box Mounting Receptacle LJT02R (MS27496),  
Crimp Box Mounting Receptacle for Back Panel Mounting LJTP02R (MS27505) 71
- Crimp Straight Plug LJT06R (MS27467). . . . . 72
- Crimp Jam Nut Receptacle LJT07R (MS27468). . . . . 73
- Hermetic Wall Mounting Receptacle LJT00 (MS27469). . . . . 74
- Hermetic Jam Nut Receptacle LJT07 (MS27470),  
Hermetic Solder Mounting Receptacle LJTL (MS27471) . . . . . 75
- Solder Wall Mounting Receptacle LJT00 (MS20026),  
Solder Line Receptacle LJT01 (MS20027) . . . . . 76
- Solder Straight Plug LJT06 (MS20028),  
Solder Jam Nut Receptacle LJT07 (MS20029) . . . . . 77
- Breakaway Fail-Safe Lanyard Release Plug 88-5388/91-5388 (MS27661) . . . . . 78, 79
- Breakaway Fail-Safe How to Order (Military /Commercial). . . . . 80
- Accessories, Contacts, and Tools see pages . . . . . 89-108



### 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

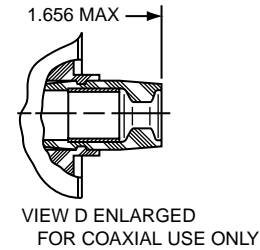
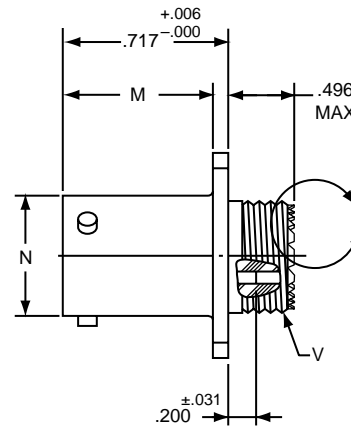
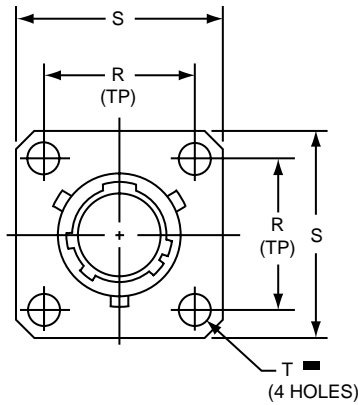
Options Others

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

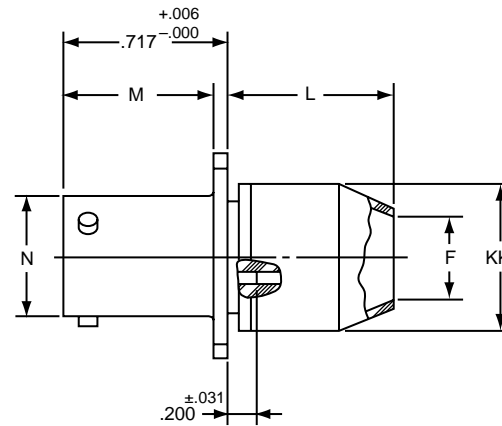
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 00          | RE            | 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)

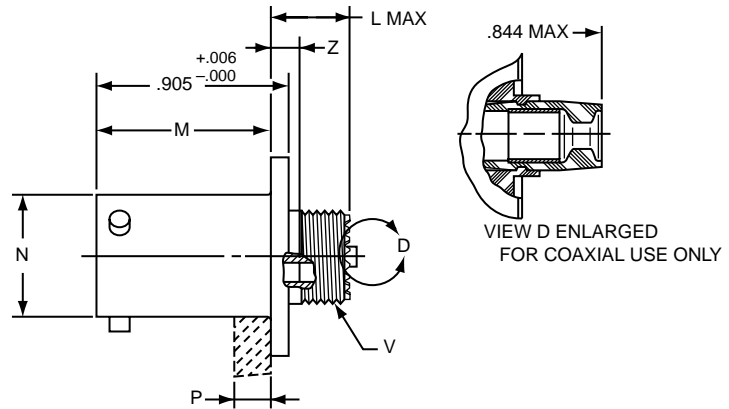
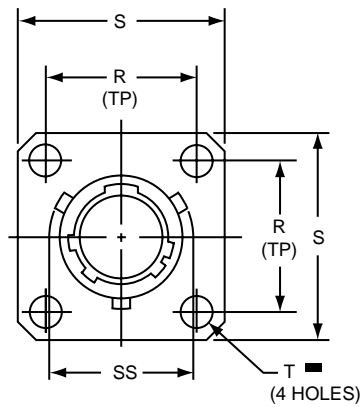


**PART #** Part number reference. To complete, see how to order pages 46-50.  
**Commercial**

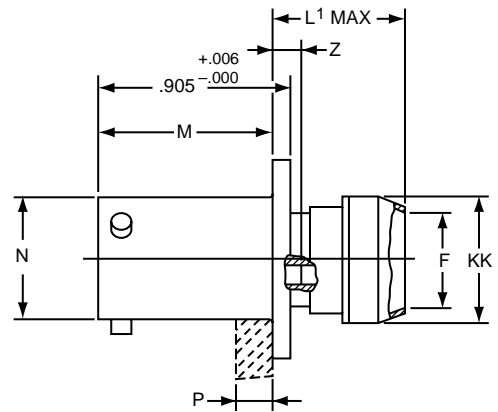
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJTPQ          | 00          | RE            | 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.

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

38999

SJT I II III

**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)              |

26482  
Matrix 2

83723 III  
Matrix Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

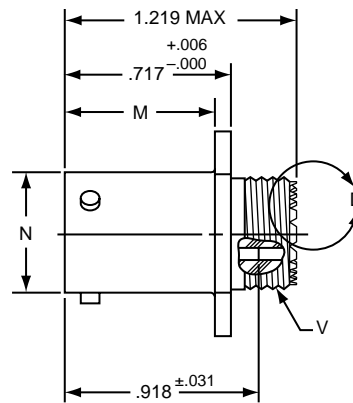
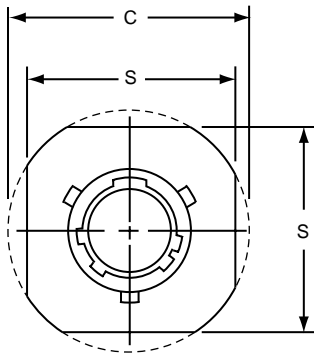
Printed  
Circuit Board

EMI Filter  
Transient

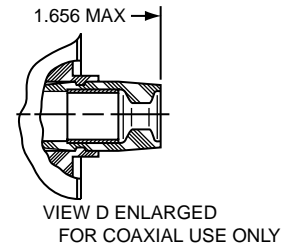
Fiber Optics

High Speed  
Contacts

Options  
Others



LJT01RE-XX-XXX  
LJT01RT-XX-XXX



| Shell Size | C Max. | M +.000<br>-.005 | N +.001<br>-.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 #

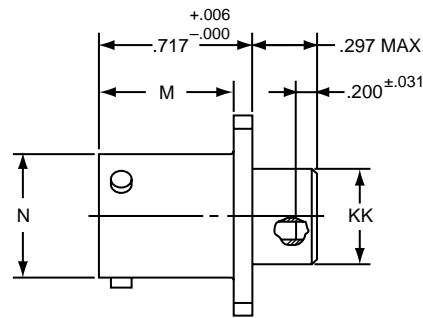
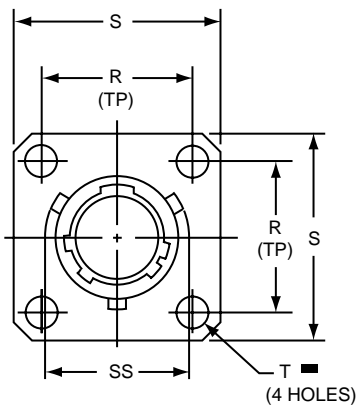
Part number reference. To complete, see how to order pages 46-50.

#### Commercial

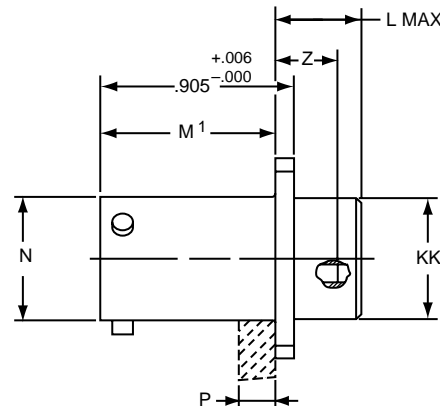
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT/LJTP       | 02          | RE            | 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<br>-.005 | M' +.001<br>-.005 | N Dia +.001<br>-.005 | P Max. Panel Thickness | R (TP) | S +.011<br>-.010 | T Dia. ±.005 | Z ±.031 | KK Dia. +.006<br>-.005 | SS Dia. +.000<br>-.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  
II I SJT

Matrix 2 26482

Matrix Pyle 83723 III

Release Matrix 5015  
Crimp Rear

Pyle 26500

Printed Circuit Board

EMI Filter Transient

Fiber Optics

High Speed Contacts

Options Others

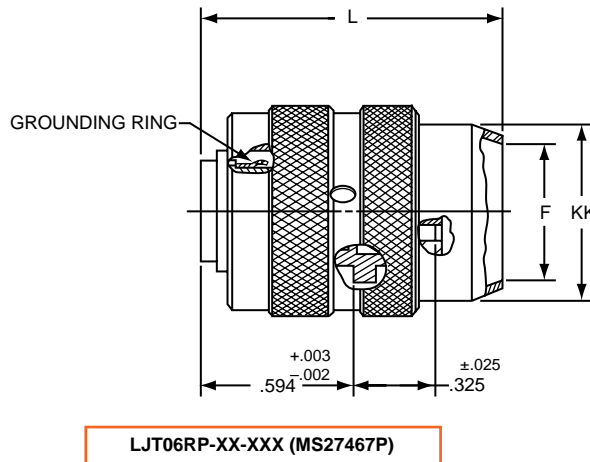
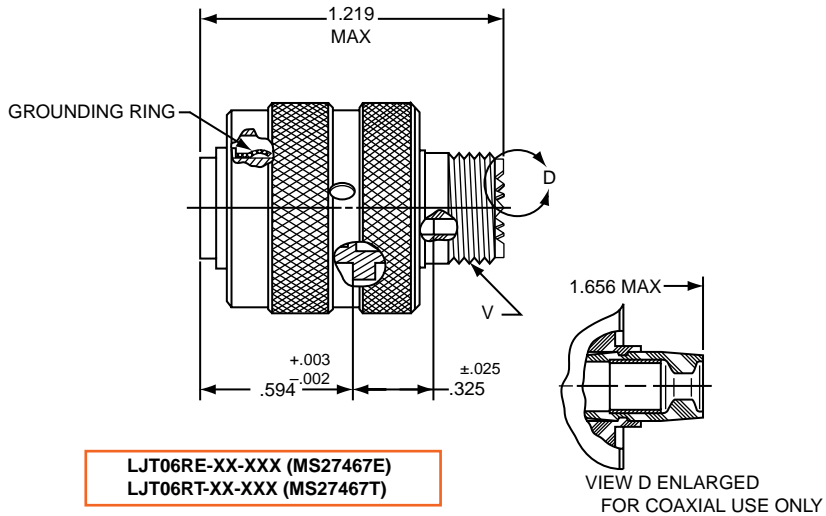
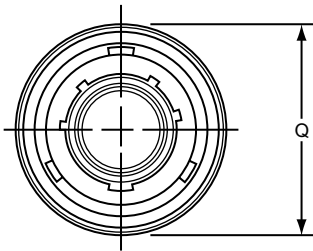
- 38999 III
- SJT I II III
- 26482 Matrix 2
- 83723 III Pyle Matrix
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

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

| 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



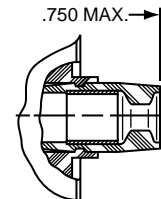
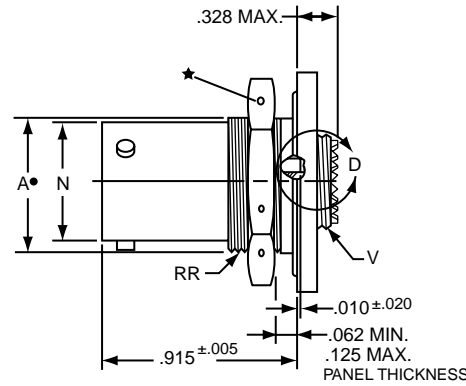
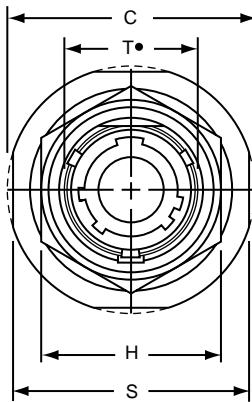
## PART # Commercial

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

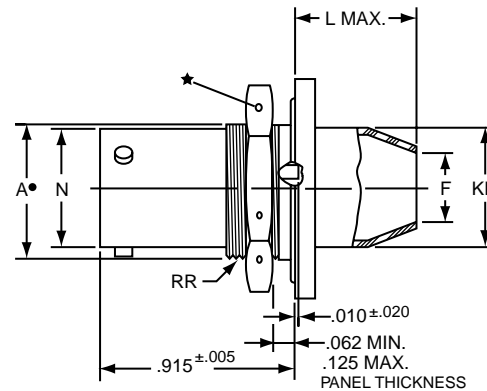
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 07          | RE            | 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*<br>+.000<br>-.010 | C Max. | F Dia.<br>±.010 | H Hex<br>+.017<br>-.016 | L<br>Max. | N<br>+.001<br>-.005 | S ±.016 | T*<br>+.010<br>-.000 | V Thread Class 2A<br>(Plated) | KK Dia.<br>Max. | RR Thread<br>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

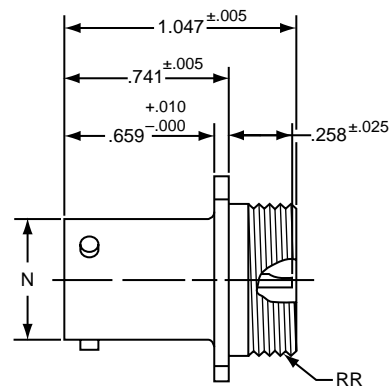
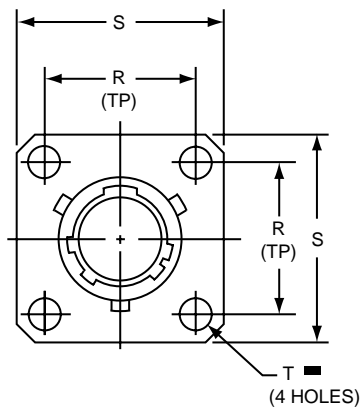
Options Others

**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)

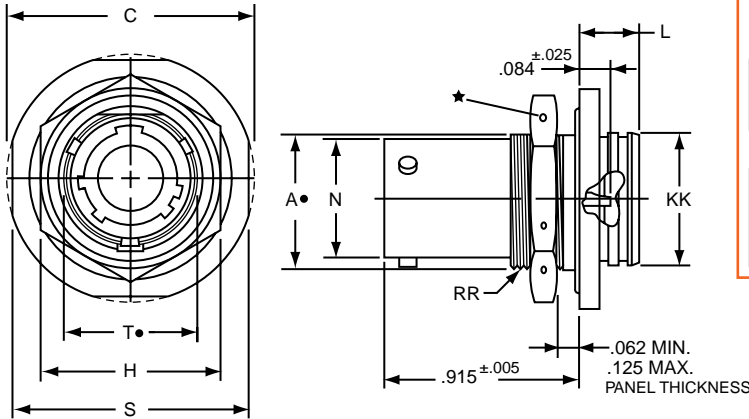
■  $\text{⊕} \text{ } .005 \text{ DIA } \text{Ⓜ}$

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

| Shell Size | N Dia. +.001<br>-.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                  |

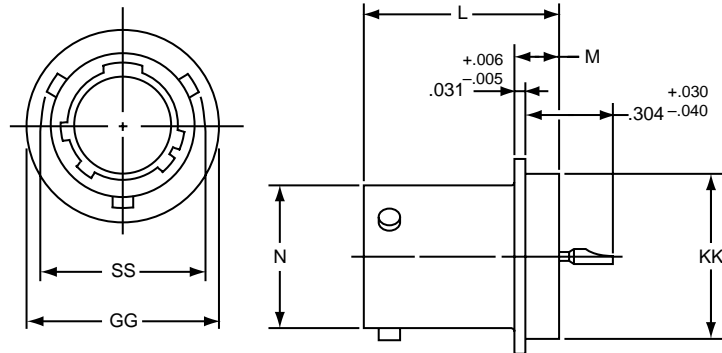
| Shell Size | A*<br>+.000<br>-.010 | C Max. | H Hex<br>+.017<br>-.016 | L Max. | N<br>+.000<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | KK<br>+.011<br>-.000 | RR Thread<br>Class 2A (Plated) |
|------------|----------------------|--------|-------------------------|--------|---------------------|------------|----------------------|----------------------|--------------------------------|
| 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.<br>+.001<br>-.005 | SS Dia.<br>+.000<br>-.016 | L +.011<br>-.000 | M<br>+.006<br>-.005 | GG Dia.<br>+.011<br>-.010 | KK Dia.<br>+.001<br>-.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.

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

Military qualified to MIL-DTL-27599

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

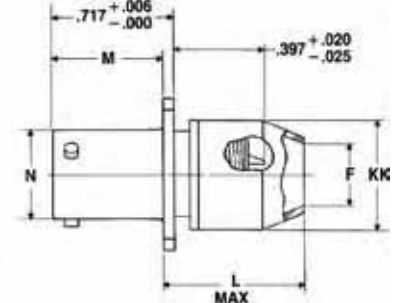
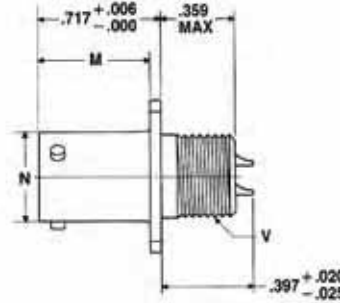
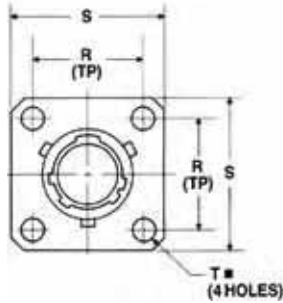
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 00          | P             | 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



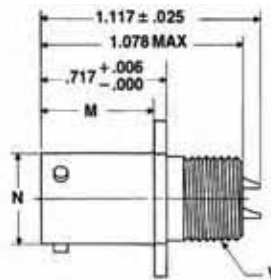
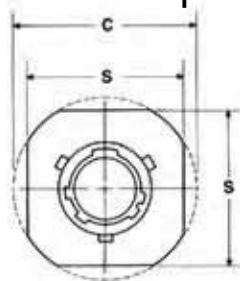
⊕ .005 DIA ⊕

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

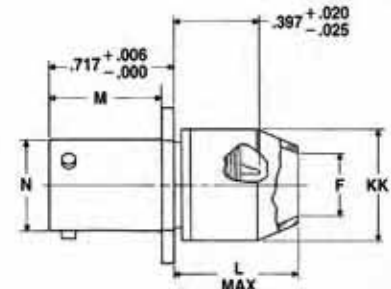
| Shell Size | F Dia. | L Max. | M +.000 / -.005 | N +.001 / -.005 | R (TP) | S ±.016 | T Dia. ±.005 | VThread Class 2A UNEF (Plated) | KK Dia. Max. |
|------------|--------|--------|-----------------|-----------------|--------|---------|--------------|--------------------------------|--------------|
| 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)



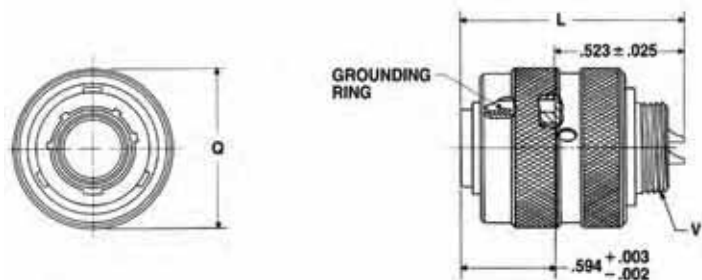
LJT01P-XX-XXX

| 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 #

**Commercial**

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

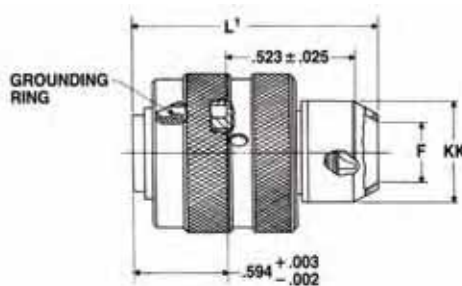
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 06          | T             | 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)**

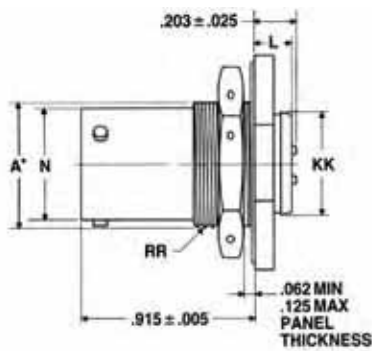
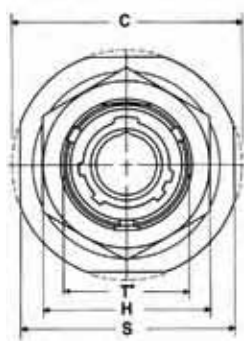
| Shell Size | F Dia. | L Max. | L' Max. | Q Max. | VThread Class 2A UNEF (Plated) | KK Dia. Max. |
|------------|--------|--------|---------|--------|--------------------------------|--------------|
| 9          | .327   | 1.128  | 1.488   | .844   | .4375-28                       | .608         |
| 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        |



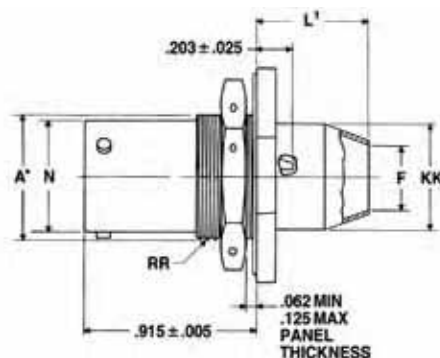
**LJT06P-XX-XXX**

# 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 -0.010 | C Max. | F Dia. | H Hex +.017 -0.016 | L Max. | L' Max. | N +.001 -0.005 | S ±.016 | T* +.010 -0.000 | KK +.011 -0.000 | 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<br>13<br>15             | 45                        | 55                         |
| 17<br>19<br>21<br>23<br>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

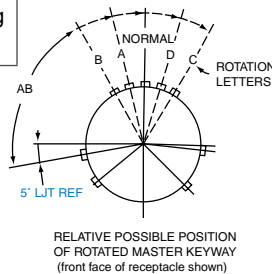
|          |  |
|----------|--|
| <b>P</b> | Designates Lanyard Release plug with pin contacts    |
| <b>S</b> | Designates Lanyard Release plug with socket contacts |

### 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                  |

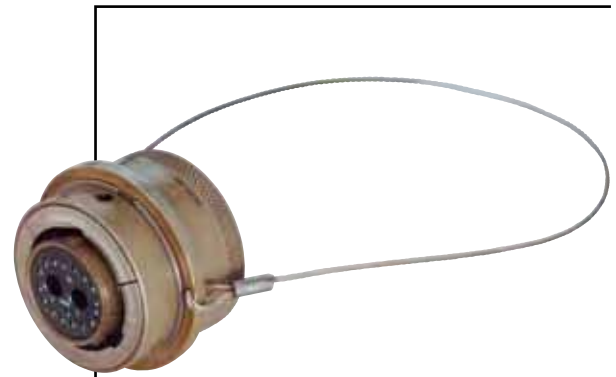
## LJT Fail Safe 88-5388/91-5388 (MS27661)

### 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                       |

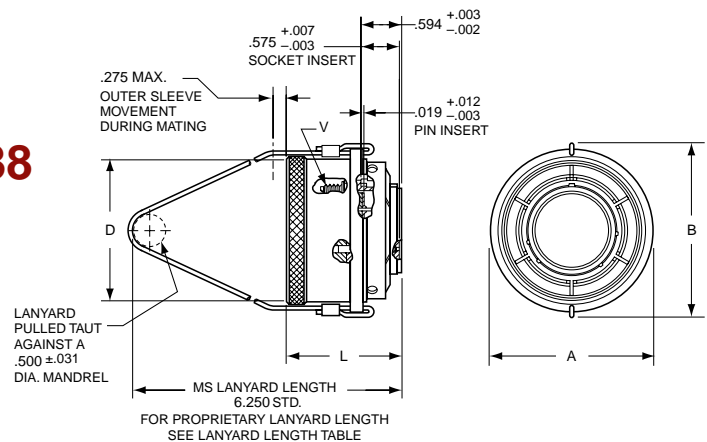
All dimensions for reference only.



## 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 |
| • Features, Specifications . . . . .               | 82 |
| • How to Order, Alternate Rotations . . . . .      | 83 |
| • Insert Availability and Identification . . . . . | 84 |

### SJT Shell Styles:

|   |        |
|---|--------|
| • Crimp Wall Mounting Receptacle SJT00RT,<br>Crimp Wall Mounting Receptacle for Back Panel Mounting SJTP00RT    | 85     |
| • Crimp Box Mounting Receptacle for Back Panel Mounting SJTP02RE,<br>Crimp Jam Nut Receptacle SJT07RT . . . . . | 86     |
| • Crimp Straight Plug SJT06RT,<br>Crimp Straight Plug with Grounding Fingers SJTG06RT . . . . .                 | 87     |
| • Hermetic Solder Mounting Receptacle SJTIY,<br>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<br>SJT | Shell Style | Service Class | Shell Size-<br>Insert Arrangement. | Contact Type | Alternate Keying<br>Position | Finish<br>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

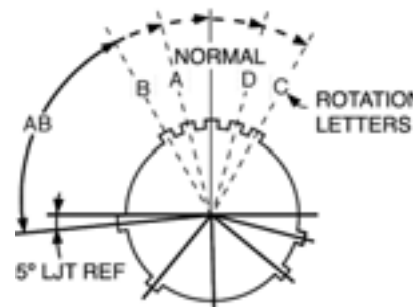
|          | Designates      |
|----------|-----------------|
| <b>P</b> | Pin Contacts    |
| <b>S</b> | Socket Contacts |

#### 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 |   |

III 38999  
 II  
 I SJT

Matrix 2 26482

Matrix Pyle 83723 III

Crimp Rear Release Matrix 5015

Pyle 26500

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.

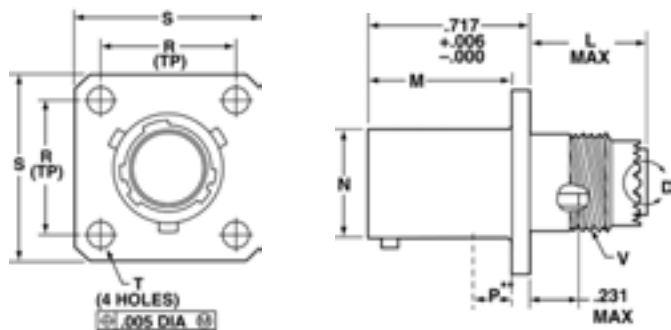
\*\*\* Two size 16 contacts dedicated to fiber optics. Consult Amphenol or Fiber Optic Section for more information.

† 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



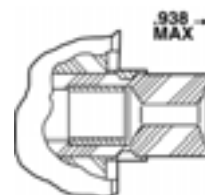
**PART #** \*To complete, see how to order pages 83-84.

| 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 - .005 | R (TP) | S ±.016 | T ±.005 | V Thread Modified      |                     |       | N +.001 - .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           |         |

**SJT00RT**

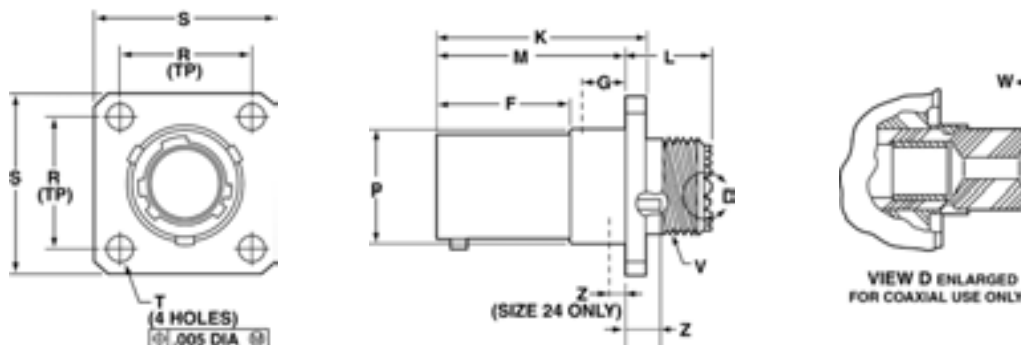


VIEW D ENLARGED FOR COAXIAL USE ONLY

# 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 - .005 | K +.006 - .000 | L Max. | M +.000 - .005 | R (TP) | S +.011 - .010 | T ±.005 | Z ±.031 | V Thread Class 2A (Plated) UNEF | P Dia. +.001 - .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.

38999

SJT

26482 Matrix 2

83723 III Matrix Pyle

5015 Crimp Rear Release Matrix

26500 Pyle

Printed Circuit Board

EMI Filter Transient

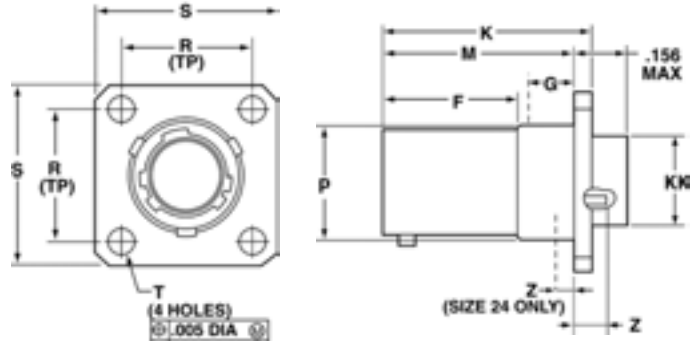
Fiber Optics

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)              |



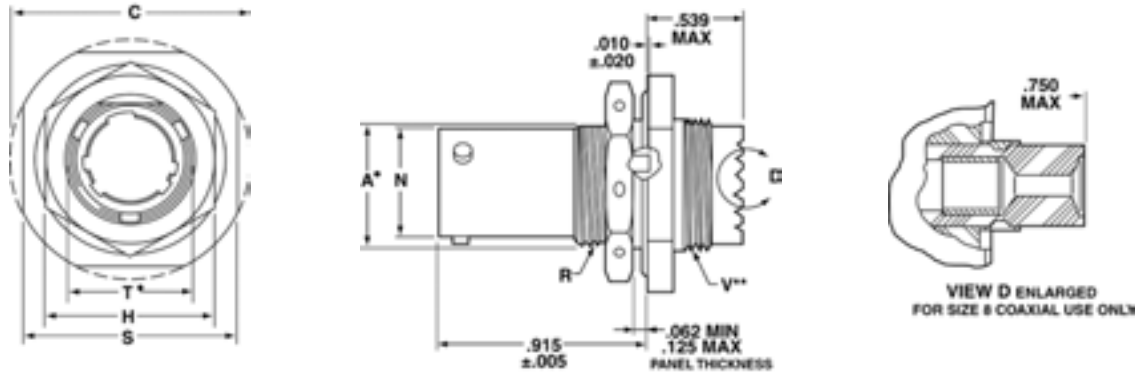
**SJTP02RE**

| Shell Size | F<br>+.000<br>-.005 | K<br>+.006<br>-.000 | M<br>+.000<br>-.005 | R<br>(TP) | S<br>+.011<br>-.010 | T<br>±.005 | Z<br>±.031 | P<br>Dia.<br>+.001<br>-.005 | KK<br>Dia.<br>+.005<br>-.002 | G<br>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*<br>+.000<br>-.010 | H<br>Hex<br>+.017<br>-.016 | S<br>±.016 | VThread<br>Class 2A<br>UNEF (Plated) | RThread<br>Class 2A<br>UNEF (Plated) | N<br>+.001<br>-.005 | C<br>Max. | T*<br>+.010<br>-.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                |

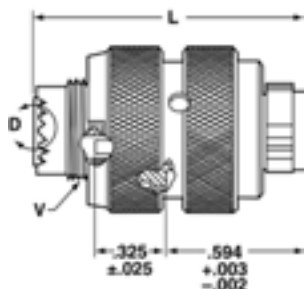
All dimensions for reference only.

# SJT06RT/SJTG06RT – Crimp

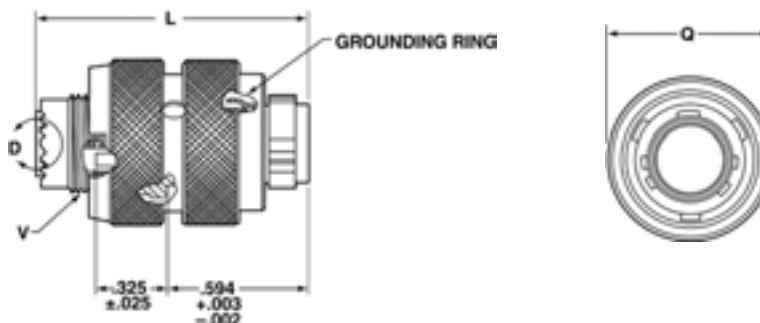
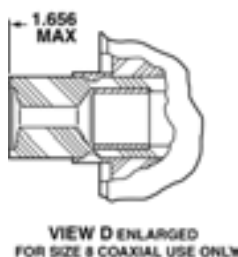
## Straight Plug/Straight Plug (with Grounding Fingers)

**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

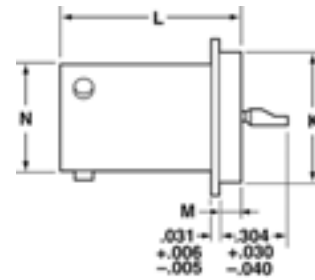
Fiber Optics

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)              |



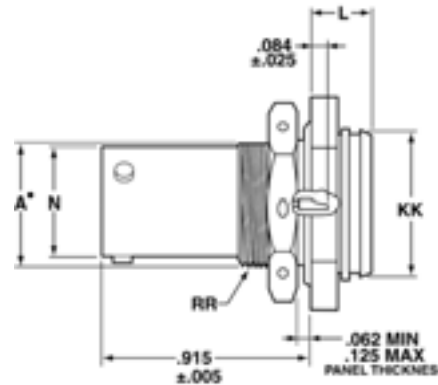
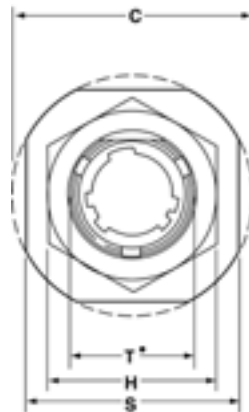
**SJTIY**

| Shell Size | L<br>+.011<br>-.000 | M<br>+.006<br>-.005 | G Dia.<br>+.011<br>-.010 | K Dia.<br>+.001<br>-.005 | N<br>+.001<br>-.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<br>+.001<br>-.005 | C<br>Max. | A*<br>+.000<br>-.010 | L<br>Max. | H Hex<br>+.017<br>-.016 | S<br>±.016 | KK<br>+.011<br>-.000 | RR<br>Thread<br>Class 2A<br>UNEF (Plated) | T*<br>+.010<br>-.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**

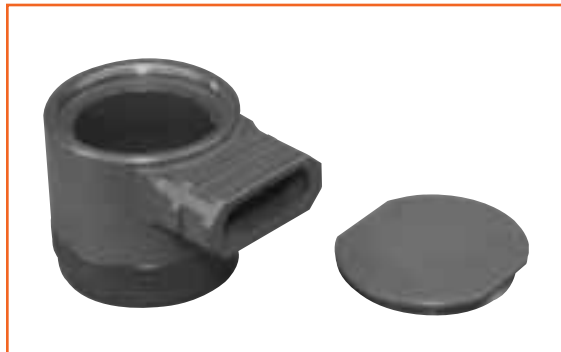
Amphenol offers a full range of accessories that are designed to enhance the performance of Amphenol Breakaway connectors.

**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.



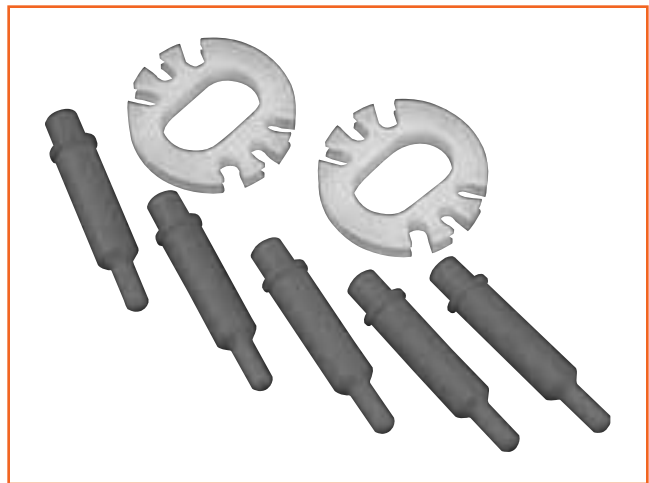
**Dummy Contacts**

- 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.

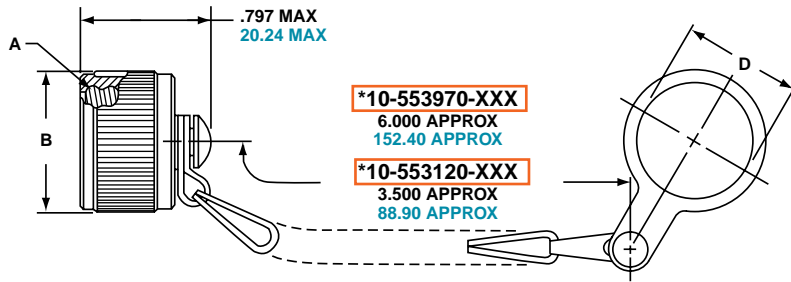
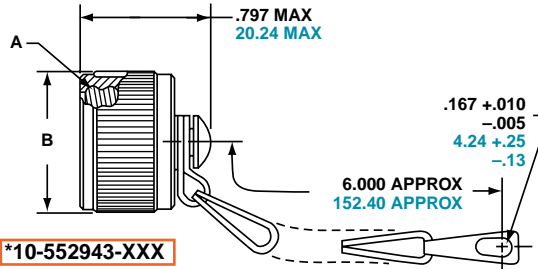
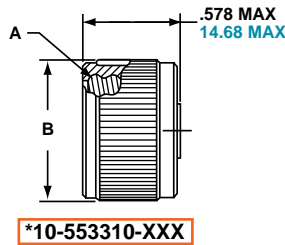


Accessory products for Breakaway Connectors: Dummy Contacts and Wire Combs

- 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

# 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<br>0.1P-0.3L-TS | B Dia. Max. | D Dia.<br>+.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<br>-.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.

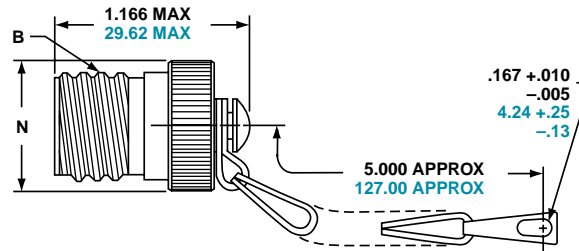
All dimensions for reference only.  
For MS protection caps, see page 95.

- III 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

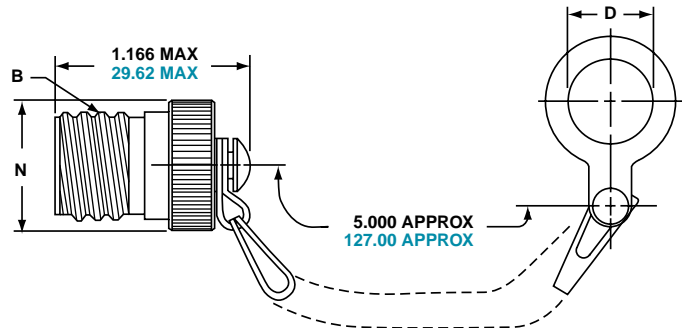
### Series III TV

- 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

\*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<br>0.1P-0.3L-TS | D Dia. +.010<br>-.000 | N Dia.<br>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.<br>+.25 -.00 | N Dia.<br>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          |

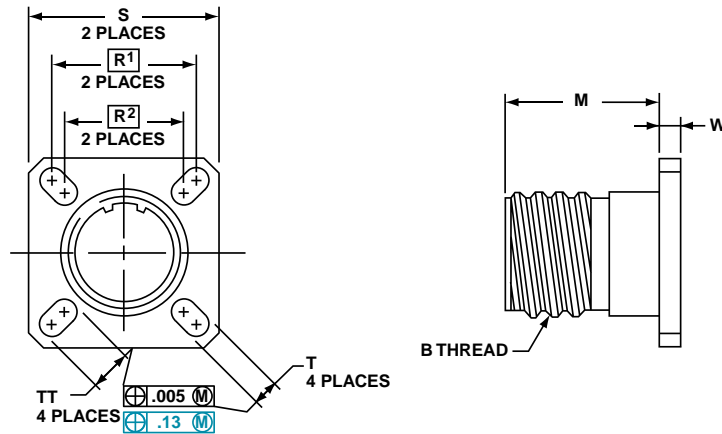
Consult Amphenol Aerospace for availability of stainless steel protection caps.

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

SJT I II III

26482

Matrix 2

83723 III

Matrix Pyle

5015

Crimp Rear Release Matrix

26500 Pyle

Printed Circuit Board

EMI Filter Transient

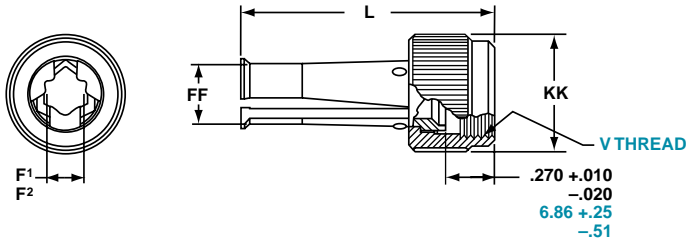
Fiber Optics

High Speed Contacts

Options Others

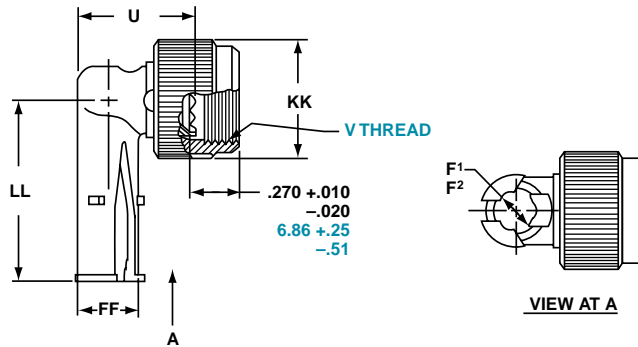
#### Straight Style

\*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   |

Millimeters

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

| 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  
II  
I  
SJT  
38999

Matrix 2  
26482

Matrix  
Pyle  
83723 III

Crimp Rear  
Release Matrix  
5015

Pyle  
26500

Printed  
Circuit Board

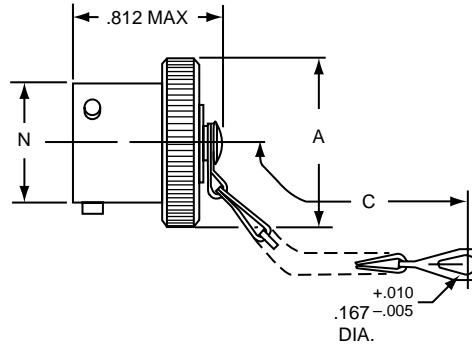
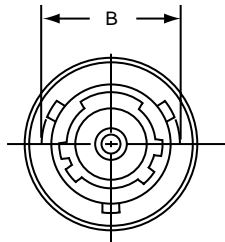
EMI Filter  
Transient

Fiber Optics

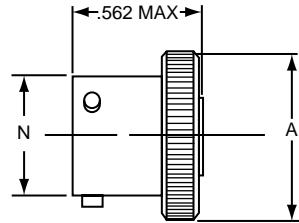
High Speed  
Contacts

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<br>+.000<br>-.016 | C<br>Approx. | N Dia.<br>+.001<br>-.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

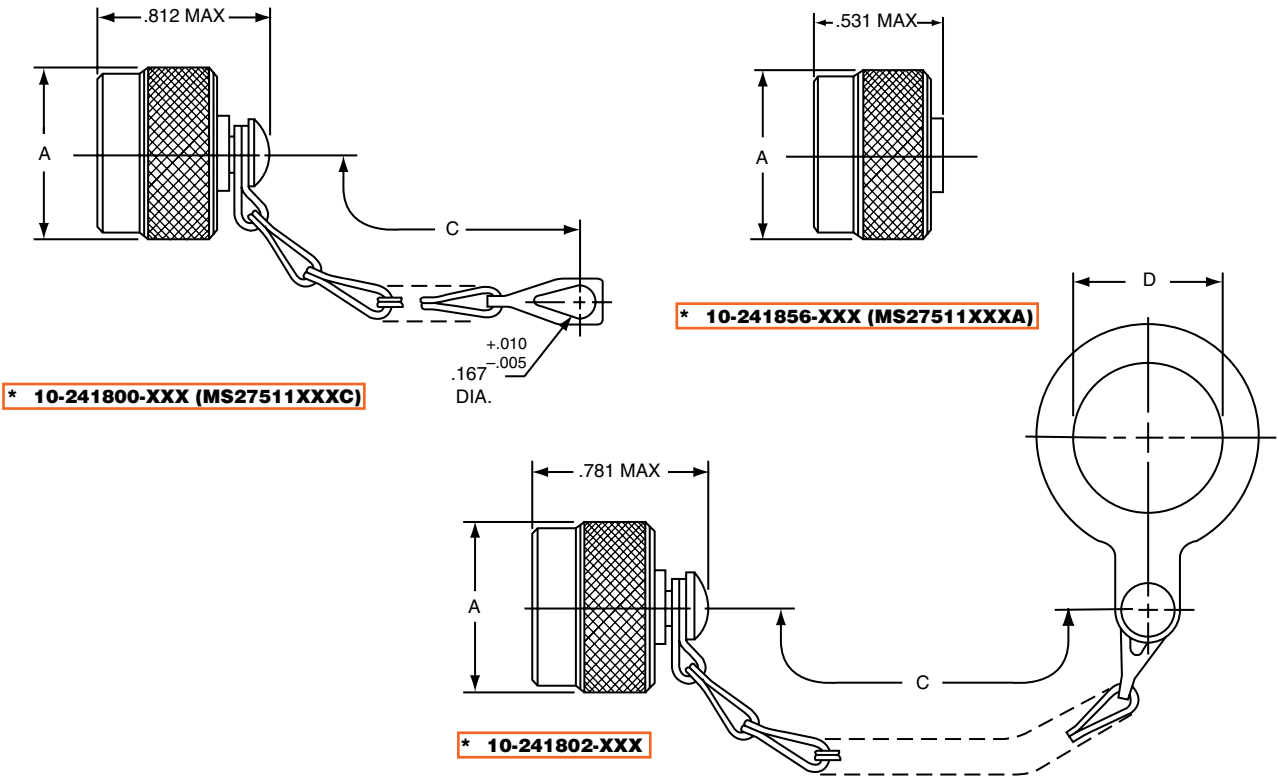
High Speed  
Contacts

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<br>-.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

EML Filter  
Transient

Fiber Optics

High Speed  
Contacts

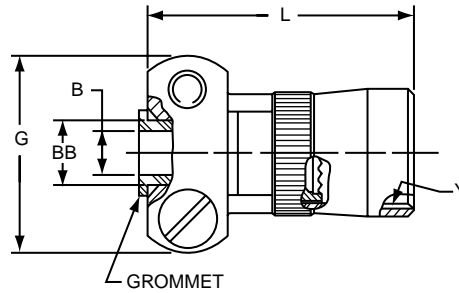
Options  
Others



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    |

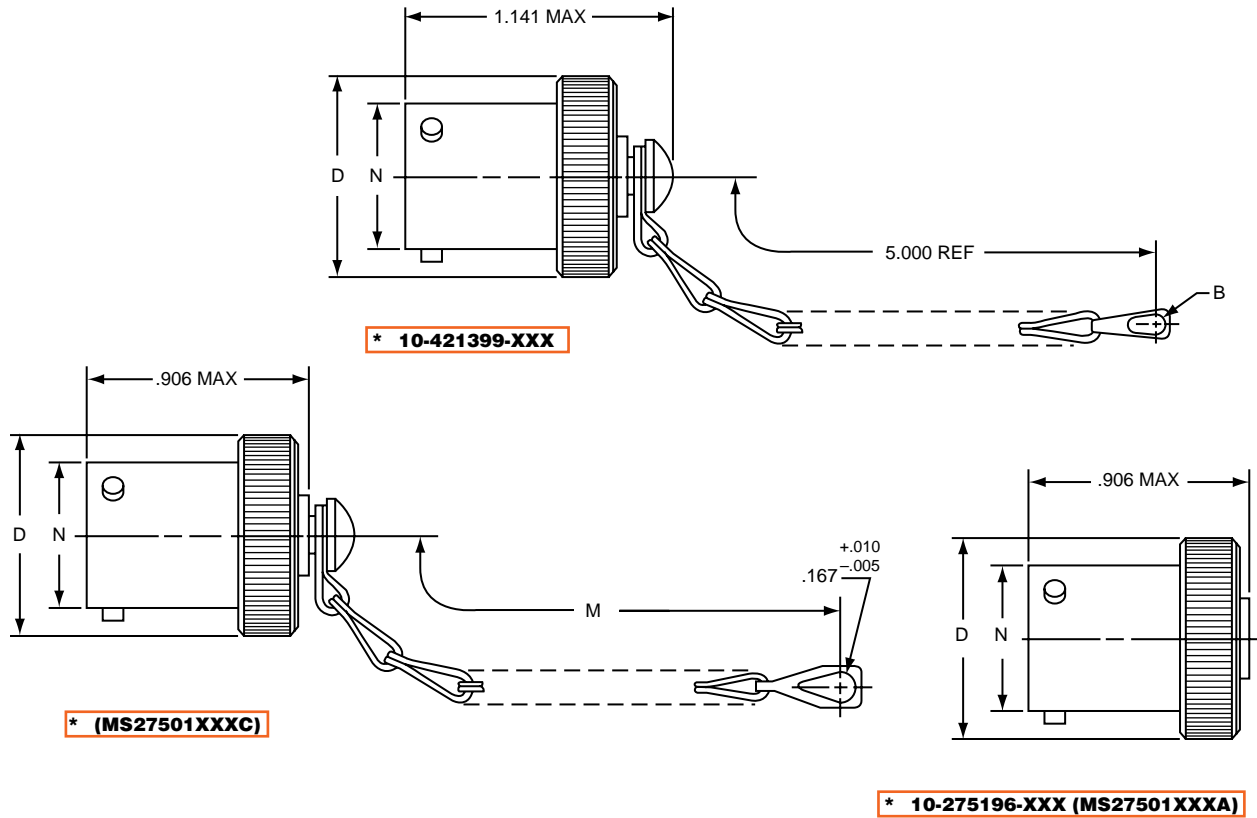
All dimensions for reference only.

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

- 38999 SJT I II III
- 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 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               |

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              |                             |                                |
| 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

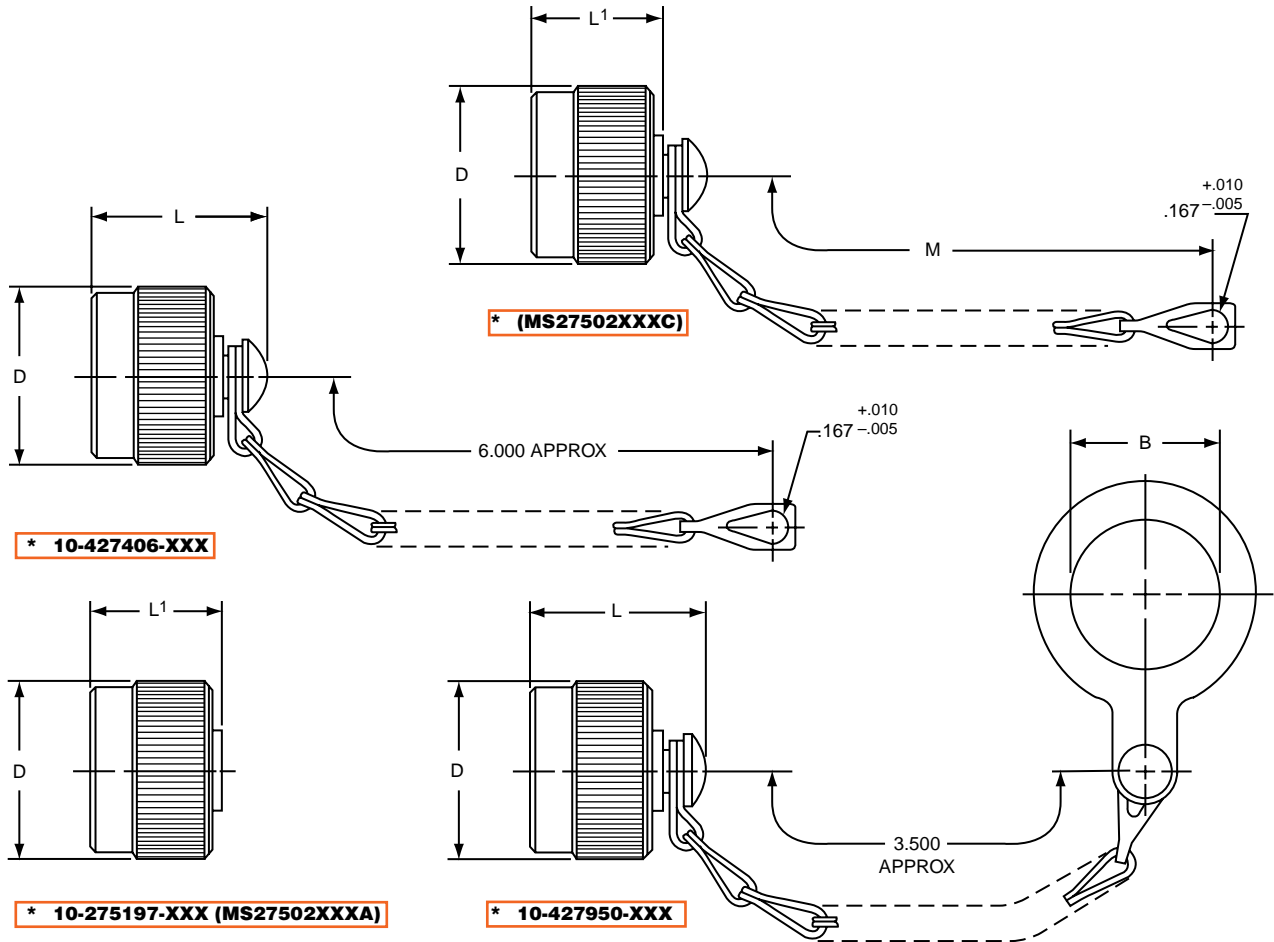
EMI Filter  
Transient

Fiber Optics

High Speed  
Contacts

Options  
Others

### Series I LJT



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.**

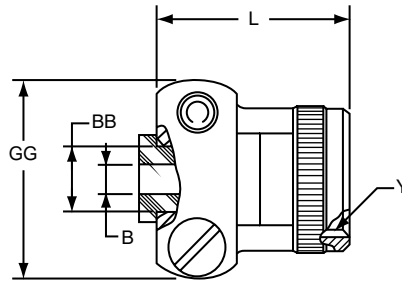
| Shell Size | B Dia. $^{+.010}_{-.000}$ | D Dia. Max. | L Max. | L' Max | M $\pm .250$ |
|------------|---------------------------|-------------|--------|--------|--------------|
| 9          | .703                      | .844        | 1.070  | .844   | 3.000        |
| 11         | .844                      | .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

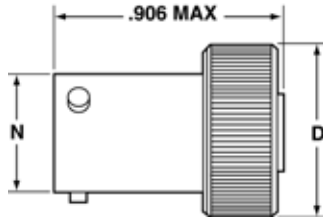
Fiber Optics

High Speed  
Contacts

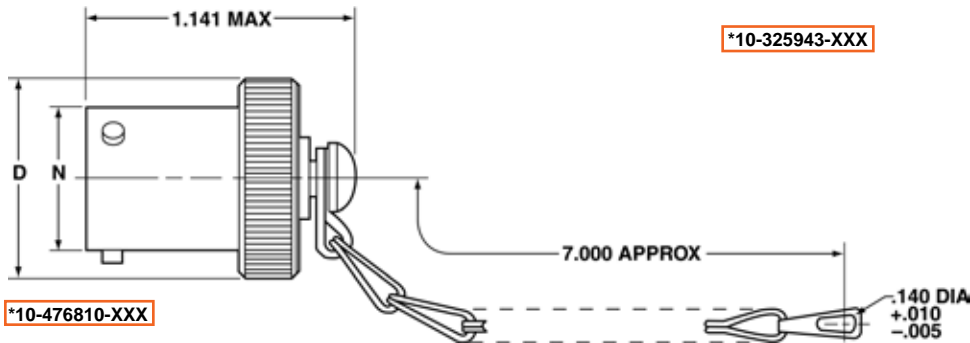
Options  
Others

SJT

### PLUG PROTECTION CAP

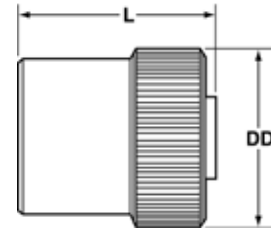


\*10-476801-XXX



\*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

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

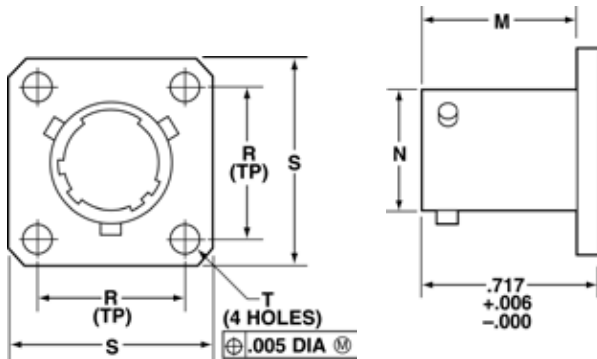
Fiber Optics

High Speed  
 Contacts

Options  
 Others

SJT

### DUMMY RECEPTACLE



\*10-476807-XXX

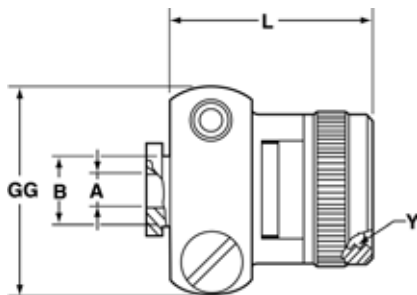
| Finish                               | Suffix |
|--------------------------------------|--------|
| Bright Cadmium Plated Nickel Base    | XX7    |
| Anodic Coating (Alumilite)           | XX5    |
| Chromate Treated (Iridite 14-2)      | XX0    |
| Olive Drab Cadmium Plate Nickel Base | XX9    |
| 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 -0.025 | B Dia. +.000 -0.011 | 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  
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I  
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Crimp Rear  
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26500 Pyle

Printed  
Circuit Board

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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<br>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

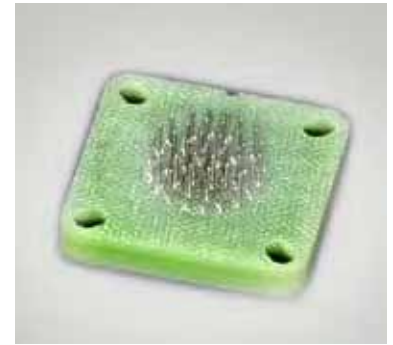
Series III TV

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

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Crimp Rear Release Matrix

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High Speed  
Contacts

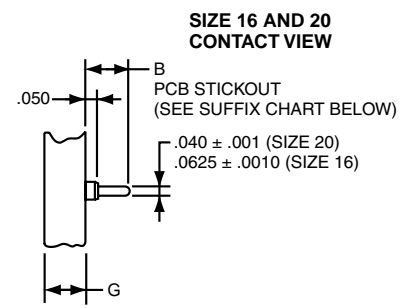
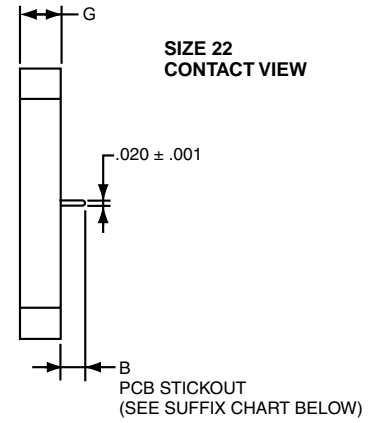
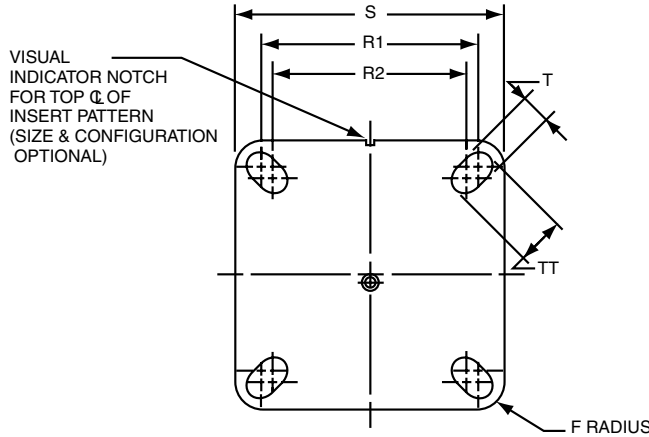
Options  
Others

# 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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[MS27505E13B4S](#) [MS27505E13F98S](#) [MS27505E13F8P](#) [MS27505E25B29S](#) [MS27505E11B35A](#) [MS27505E11B35B](#)  
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[MS27505E15B18P-LC](#) [MS27505E15B18S](#) [MS27505E15B19P](#) [MS27505E15B35B](#) [MS27505E15B35P](#)  
[MS27505E15B35PA](#) [MS27505E15B35P-LC](#) [MS27505E15B35S](#) [MS27505E15B35SA](#) [MS27505E15B37S](#)  
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