

# 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**  
Aerospace

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 | Contact Size | Crimp Well Data |                 |
|--------------|--------------|----------|-------------------------------|---------------------------------|--------------|-----------------|-----------------|
|              | Standard     | Hermetic |                               |                                 |              | Well Diameter   | Min. Well Depth |
| 22M          | 3            | 2        | 45                            | 60                              | 22M          | .028 ±.001      | .141            |
| 22D          | 5            | 3        | 73                            | 85                              | 22D          | .0345 ±.0010    | .141            |
| 22           | 5            | 3        | 73                            | 85                              | 22           | .0365 ±.0010    | .141            |
| 20           | 7.5          | 5        | 55                            | 60                              | 20           | .047 ±.001      | .209            |
| 16           | 13           | 10       | 49                            | 85                              | 16           | .067 ±.001      | .209            |
| 12           | 23           | 17       | 42                            | 85                              | 12           | .100 ±.002      | .209            |
| 10 Power     | 33           | NA       | 33                            | NA                              | 10 (Power)   | .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.

## 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

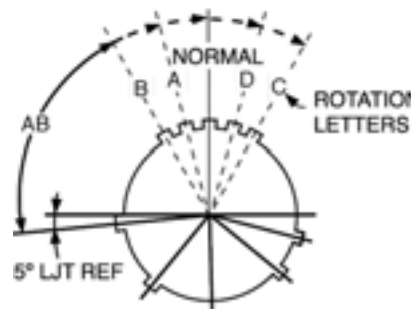
|          | Designates      |
|----------|-----------------|
| <b>P</b> | Pin Contacts    |
| <b>S</b> | Socket Contacts |

## 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<br>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 |                                            |

| 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

Amphenol has become the leader in interconnection products through its long history of engineering expertise for product solution solving. New and innovative solutions are under development every day within our highly skilled engineering departments who are teamed with marketing product managers and production specialists. They are always striving to meet new customer requirements in ever changing markets. The teams have a customer-driven approach to produce the end result: quality interconnect products that meet or exceed customer demands.



### New/Featured

#### Breakaway Hybrid, Low Profile Lanyard Release Plug Page 42

New Hybrid Lanyard Breakaway Fail Safe Connector with a composite thermoplastic outer operating sleeve for greater durability.

Solution: Navy F-18 program needed a break away plug that would have greater durability in weapons release application.



### New/Featured

#### New HD38999 (High Density, Crimp) Plugs and receptacles Page 43, 44

The HD38999 family of connectors was designed to work with existing Mil-specified 38999 shells. The HD38999 has 30% more contacts, it still performs to minimum electrical requirements of standard 38999 connectors.

Solution: 30% more contact density in 38999 Series III Shells



### New/Featured

#### Matrix MIL-DTL-5015 with RADSOK® Contacts Page 193

A special design of the Matrix MIL-DTL-5015, Series II connectors has added high amperage with the RADSOK® contacts in the plug instead of standard rear release crimp contacts.

Solution: Higher amperage capability in Matrix MIL-DTL-5015



### New/Featured

#### Filter Connector with High Density Patterns Page 289

New High Density Patterns are available in Filter 38999 connectors in standard Mil-Spec or filter length shells. They provide 30% more contact than standard insert arrangement patterns. See page 43 for ordering information.

Solution: Higher contact density and custom stand-off shell designs



### New/Featured

#### ARINC 801 Connectors Page 356

Designed for use in Amphenol ARINC 801 fiber optic connectors - manufactured to comply with ARINC 801. Genderless terminus allows for use on both sides of a connector.

Solution: Fiber Optic Termini & Connector that meet ARINC specifications



### New/Featured

#### MT Ferrule Connectors Page 359

Amphenol offers a multi-channel circular connector with high density MT fiber optics. High fiber density in a relatively small circular connector package with all the advantages of the MIL-DTL-38999 series III connector.

Solution: Higher Density Fiber Optics in MIL-DTL-38999

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



| Shell Size | Crimp | Hermetics*<br>Class Y | Service<br>Rating | Total<br>Contacts | Contact Size |     |     |    |       |    |              |               |             |                  |
|------------|-------|-----------------------|-------------------|-------------------|--------------|-----|-----|----|-------|----|--------------|---------------|-------------|------------------|
|            |       |                       |                   |                   | 22D          | 22M | 22  | 20 | 16    | 12 | 12<br>(Coax) | 10<br>(Power) | 8<br>(Coax) | 8†††<br>(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.

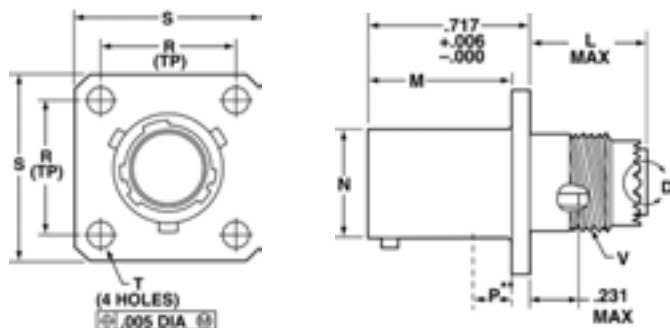
\*\*\* Two size 16 contacts dedicated to fiber optics. Consult Amphenol or Fiber Optic Section for more information.

† 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



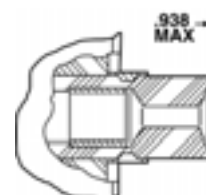
**PART #** \*To complete, see how to order pages 83-84.

| 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<br>-.005 | R (TP) | S ±.016 | T ±.005 | VThread Modified       |                     |       | N +.001<br>-.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**

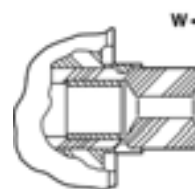
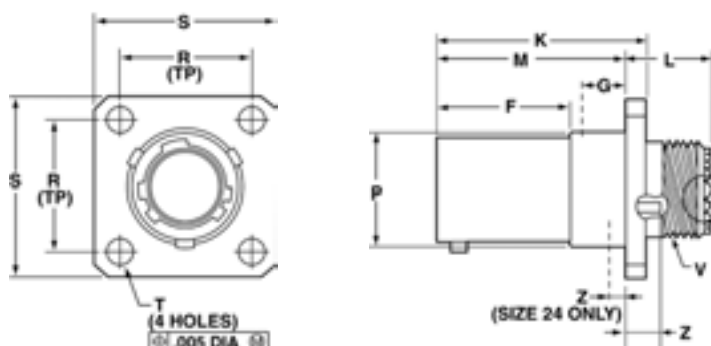


VIEW D ENLARGED  
FOR COAXIAL USE ONLY

## 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)              |



VIEW D ENLARGED  
FOR COAXIAL USE ONLY

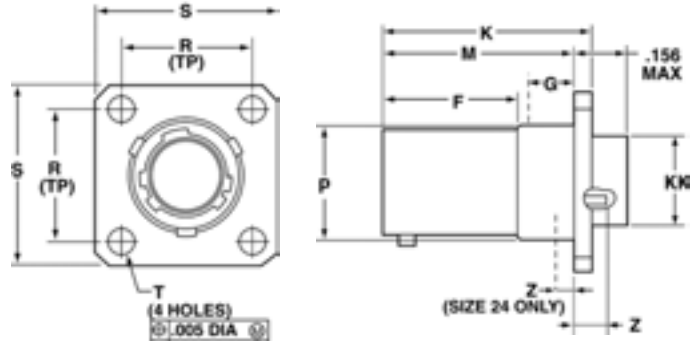
**SJTP00RT**

| Shell Size | F +.000<br>-.005 | K +.006<br>-.000 | L Max. | M +.000<br>-.005 | R (TP) | S +.011<br>-.010 | T ±.005 | Z ±.031 | VThread Class 2A (Plated) UNEF | P Dia. +.001<br>-.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.

**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)              |



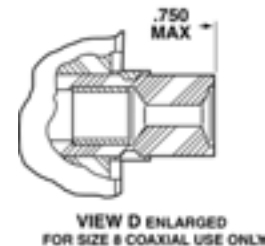
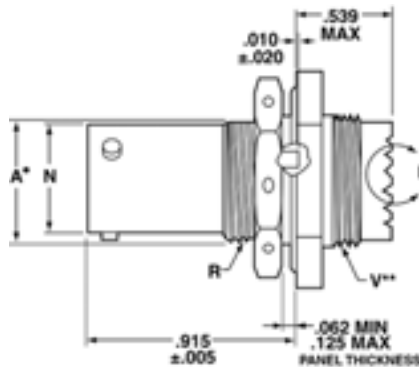
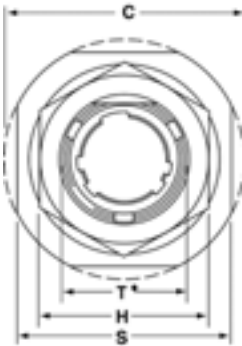
**SJTP02RE**

| 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                |

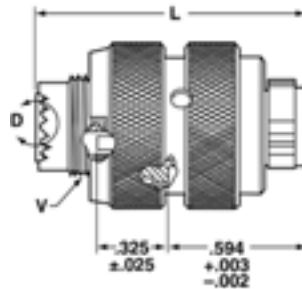
All dimensions for reference only.



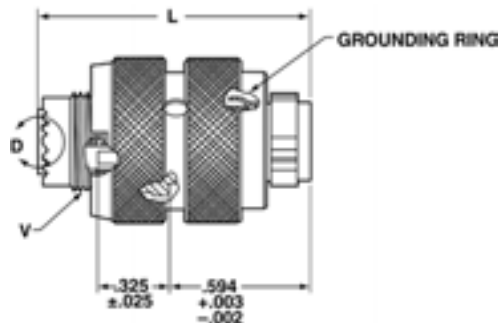
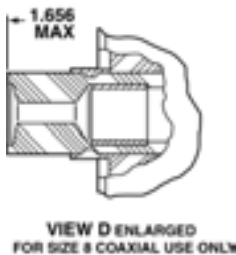
# SJT06RT/SJTG06RT – Crimp Straight Plug/Straight Plug (with Grounding Fingers)

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

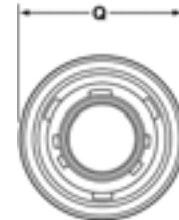
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Positions | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|---------------------|--------------------|
| SJT            | 06          | 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  
Matrix Pyle

5015  
Crimp Rear Release Matrix

26500  
Pyle

Printed  
Circuit Board

EMI Filter  
Transient

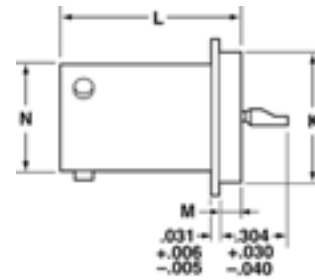
Fiber Optics

High Speed  
Contacts

Options  
Others

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

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



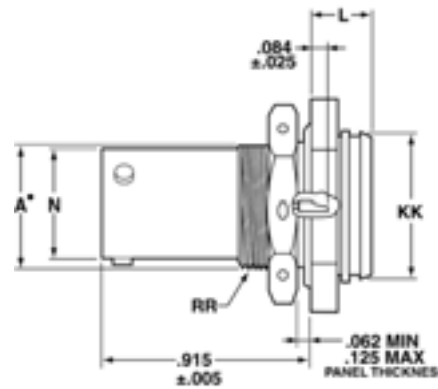
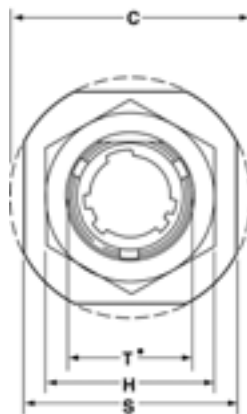
**SJTIY**

| 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 Arr | 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 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.

# MIL-DTL-38999 Series III, II, I, and SJT

## Accessories, Contacts, and Tools



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

26482  
Matrix 2

83723 III  
Matrix  
Pyle

5015  
Crimp Rear  
Release Matrix

26500 Pyle

Printed  
Circuit Board

EMI Filter  
Transient

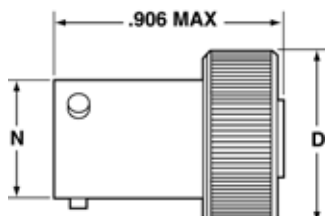
Fiber Optics

High Speed  
Contacts

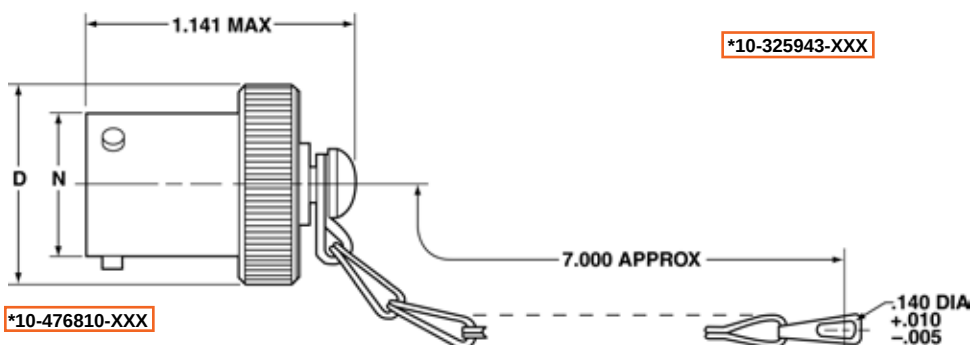
Options  
Others

SJT

### PLUG PROTECTION CAP



\*10-476801-XXX



\*10-476810-XXX

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

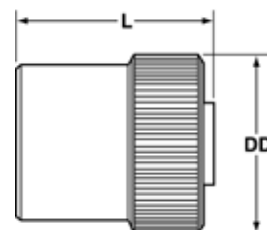
| Plug Shell Size | D Dia. Max. | N Dia. +.001 -.005 |
|-----------------|-------------|--------------------|
| 8               | .688        | .473               |
| 10              | .812        | .590               |
| 12              | .969        | .750               |
| 14              | 1.094       | .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

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

### 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, [10-325943-107](#).

| 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   |

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

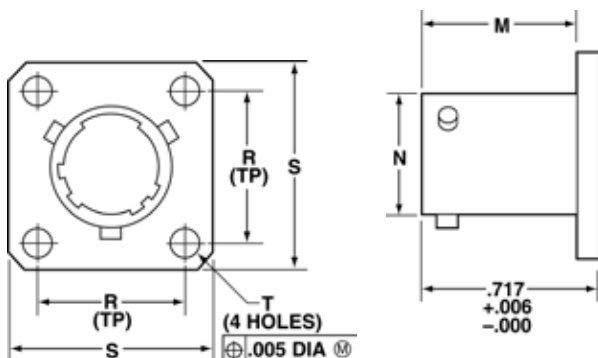
Fiber Optics

High Speed  
Contacts

Options  
Others

SJT

### DUMMY RECEPTACLE



\*10-476807-XXX

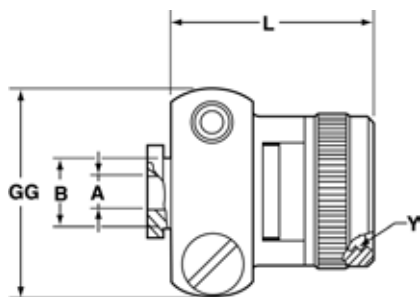
| Finish                               | Suffix |
|--------------------------------------|--------|
| Bright Cadmium Plated Nickel Base    | XX7    |
| Anodic Coating (Alumilite)           | XX5    |
| Chromate Treated (Iridite 14-2)      | XX0    |
| Olive Drab Cadmium Plate Nickel Base | XX9    |
| 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<br>Shell Size | D<br>Dia. Max. | L<br>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<br>Clamp<br>Shell<br>Size | A<br>Dia.<br>+.010<br>-.025 | B<br>Dia.<br>+.000<br>-.011 | L<br>Max. | Y<br>Thread<br>Class 2B<br>UNEF (Plated) | GG<br>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



## CONTACTS &amp; 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   |

### Series III TV

### Series II JT

### Series I LJT

### SJT

The following data includes information pertaining to the application tools which have been established for crimping, inserting, and removing contacts incorporated in the TV, CTV and MIL-DTL-38999 Series III connectors. For additional information on coax, twinax and triax contact tools see High Speed Contact section of this catalog. All crimping tools included are the "full cycling" type and when

used as specified in the installation instructions (L-624 and L-844) covering the TV, CTV and MS series connectors, will provide reliable crimped wire to contact terminations. There is a possibility of additional crimping tools other than those included being available at present or in the future for this specific application.

### CRIMPING TOOLS

| Contact Size/Type                        | Crimping Tool                             | Turret Die or Positioner                  |
|------------------------------------------|-------------------------------------------|-------------------------------------------|
| 12 Pin and Socket                        | M22520/1-01                               | M22520/1-04                               |
| 16 Pin and Socket                        | M22520/1-01<br>M22520/7-01                | M22520/1-04<br>M22520/7-04                |
| 20 Pin and Socket                        | M22520/1-01<br>M22520/2-01<br>M22520/7-01 | M22520/1-04<br>M22520/2-10<br>M22520/7-08 |
| 22, 22D, 22M Pin                         | M22520/2-01<br>M22520/7-01                | M22520/2-09<br>M22520/7-07                |
| 22, 22D, 22M Socket Series I, III        | M22520/2-01<br>M22520/7-01                | M22520/2-07<br>M22520/7-05                |
| 22D Socket Series II                     | M22520/2-01<br>M22520/7-01                | M22520/2-06<br>M22520/7-06                |
| 8 Twinax Center Pin and Socket           | M22520/2-01                               | M22520/2-37                               |
| 8 Twinax Intermediate Outer Pin & Socket | M22520/5-01                               | M22520/5-200                              |

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

| Contact Size/Type               | Crimping Tool | Turret Die or Positioner   |
|---------------------------------|---------------|----------------------------|
| 8 Coaxial Inner Pin and Socket  | M22520/2-01   | M22520/2-31                |
| 8 Coaxial Outer Pin and Socket  | M22520/5-01   | M22520/5-05 Die Closure B  |
|                                 | M22520/5-01   | M22520/5-41 Die Closure B  |
|                                 | M22520/10-01  | M22520/10-07 Die Closure B |
| 16 Coaxial Inner Pin and Socket | M22520/2-01   | M22520/2-35                |
| 16 Coaxial Outer Pin and Socket | M22520/4-01   | M22520/4-02                |
| 12 Coaxial Inner Pin and Socket | M22520/2-01   | M22520/2-34                |
| 12 Coaxial Outer Pin and Socket | M22520/31-01  | M22520/31-02               |
| 10 (Power)                      | TP-201423     |                            |

### INSERTION TOOLS

| Use with Contact Size | Plastic Tools  |                  | Metal Tools    |            |                                   |        |
|-----------------------|----------------|------------------|----------------|------------|-----------------------------------|--------|
|                       | MS Part Number | Color            | Angle Type     |            | Straight Type Commercial Part No. | Color  |
| 10 (Power)            | M81969/14-05*  | Gray / (White)   | M81969/8-11    | †          | †                                 | Green  |
| 12                    | M81969/14-04*  | Yellow / (White) | M81969/8-09    | 11-8674-12 | 11-8794-12                        | Yellow |
| 16                    | M81969/14-03*  | Blue / (White)   | M81969/8-07    | 11-8674-16 | 11-8794-16                        | Blue   |
| 20                    | M81969/14-10*  | Red / (Orange)   | M81969/8-05    | 11-8674-20 | 11-8794-20                        | Red    |
| 22                    | M81969/14-09   | Brown/White      | M81969/8-03    | 11-8674-22 | 11-8794-22                        | Brown  |
| 22D, 22M              | M81969/14-01*  | Green / (White)  | M81969/8-01    | 11-8674-24 | 11-8794-24                        | Black  |
| 8 Coaxial             | None Required  |                  |                |            |                                   |        |
| 8 Twinax              | None           |                  | M81969/46-06** | None       |                                   | Red    |

### REMOVAL TOOLS

| Use with Contact Size | Plastic Tools  |                  | Metal Tools                              |                |                     |                                   |                |
|-----------------------|----------------|------------------|------------------------------------------|----------------|---------------------|-----------------------------------|----------------|
|                       | MS Part Number | Color            | For Unwired Contacts Commercial Part No. | Angle Type     |                     | Straight Type Commercial Part No. | Color          |
|                       |                |                  |                                          | MS Part No.    | Commercial Part No. |                                   |                |
| 10 (Power)            | M81969/14-05*  | (Gray) / White   | †                                        | M81969/8-12    | †                   | †                                 | Green / White  |
| 12                    | M81969/14-04*  | (Yellow) / White | 11-10050-11                              | M81969/8-10    | 11-8675-12          | 11-8795-12                        | Yellow / White |
| 16                    | M81969/14-03*  | (Blue) / White   | 11-10050-10                              | M81969/8-08    | 11-8675-16          | 11-8795-16                        | Blue / White   |
| 20                    | M81969/14-10*  | (Orange) / Red   | 11-10050-9                               | M81969/8-06    | 11-8675-20          | 11-8795-20                        | Red / Orange   |
| 22                    | M81969/14-09*  | (Brown)/White    | 11-10050-8                               | M81969/8-04    | 11-8675-22          | 11-8795-22                        | Brown/White    |
| 22D, 22M              | M81969/14-01*  | (Green) / White  | 11-10050-7                               | M81969/8-02    | 11-8675-24          | 11-8795-24                        | Green / White  |
| 8 Coaxial             | M81969/14-12   | Green            | None                                     | None           | 11-9170             | DRK264-8††                        | N/A            |
| 8 Twinax              | M81969/14-12   | Green            | None                                     | M81969/46-12** | 11-9170             | N/A                               | N/A            |

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

\* Double end insertion/removal tool.

\*\* Twinax insertion tools are available only in a straight type, metal version.

† To be determined.

†† Contact Daniels Manufacturing Co. for availability.