

Amphenol MIL-DTL-5015, Matrix[®]



**New
Featured**



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MIL-DTL-5015, Matrix[®] Typical Markets:

- Military Vehicles
- Heavy Equipment
- Military Aircraft
- Power Generation

Amphenol
Aerospace

III
II
I
SJT

38999

Matrix 2

26482

Matrix
Pyle

83723 III

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others



MS3450
wall mounting receptacle



MS3451
cable connecting receptacle



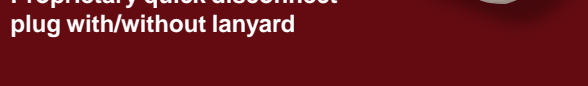
MS3452
box mounting receptacle



MS3454
jam nut receptacle



MS3456
plug with threaded
coupling



MS3459
plug with self-locking
coupling nut

Proprietary quick disconnect
plug with/without lanyard

Amphenol broadens their MS/Standard family of connectors with the MIL-DTL-5015 Crimp Rear Release Series.

This series provides an alternative to the older MIL-C-5015 solder type. It bridges the gap between an old connector standard and the environmental and high performance needs of current technologies.

DESIGN CHARACTERISTICS

- Medium to heavy weight cylindrical
- MS345() series intermateable with existing MIL-DTL-5015 solder or crimp versions on existing equipment
- Captive coupling nut mechanism, utilizes retaining rings in combination with "L" washers to prevent inadvertent disassembly
- Multiple interlock systems ensure permanent insert retention
- Positive control of dielectric separation with guaranteed ease of contact insertion
- Positive contact retention provided by a closely toleranced damage-proof metal retention clip
- Completely sealed against environmental extremes with -
 - Individual contact seals (conical risers on pin interface)
 - Interfacial seals between contacts
 - Peripheral gasket shell-to-shell seals
 - Redundant rear wire seals and insert-to-shell seals

CUSTOMER OPTIONS

- Seven mounting styles, in shell sizes 8 to 48*
- Threaded coupling or self-locking plug (MS3459) with an internal ratcheting mechanism to prevent unmating due to vibration and shock, eliminating the need for safety wiring
- Proprietary quick disconnect plug, with or without lanyard available
- Classes include aluminum or stainless steel shells, or firewall capability
- MS and Proprietary versions available
- Some styles are supplied to McDonnell Douglas Specification BAN 7025, DC60 Series
- Accommodation of contact sizes 0 to 16
- Over 100 insert arrangement patterns available, accommodating from a minimum of 1 to a maximum of 85 circuits
- Alternate positioning available
- Thermocouple pin and socket contacts are available**

NOTE: MIL-C-5015 is superseded to MIL-DTL-5015 for all Amphenol/Matrix rear release crimp type contacts.

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

** Consult Amphenol, Sidney, NY for information on thermocouple contacts.

- 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

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | |
|--------------------|----------------|----------------|--------------|---|---|----|----|
| | | | 0 | 4 | 8 | 12 | 16 |
| 8S-1 | A | 1 | | | | | 1 |
| 10S-2 | A | 1 | | | | | 1 |
| 10SL-3 | A | 3 | | | | | 3 |
| 10SL-4 | A | 2 | | | | | 2 |
| 12S-1 | A | 2 | | | | | 2 |
| 12S-2 | A | 2 | | | | | 2 |
| 12S-3 | A | 2 | | | | | 2 |
| 12S-4 | D | 1 | | | | | 1 |
| 12-5 | D | 1 | | | | 1 | |
| 14S-1** | A | 3 | | | | | 3 |
| 14S-2 | Inst. | 4 | | | | | 4 |
| 14-3 | A | 1 | | | 1 | | |
| 14S-5 | Inst. | 5 | | | | | 5 |
| 14S-6 | Inst. | 6 | | | | | 6 |
| 14S-7 | A | 3 | | | | | 3 |
| 14S-9** | A | 2 | | | | | 2 |
| 14S-10 | Inst. | 4 | | | | | 4 |
| 14S-11 | Inst. | 4 | | | | | 4 |
| 14S-12 | A | 3 | | | | | 3 |
| 14S-13 | A | 3 | | | | | 3 |
| 16S-1 | A | 7 | | | | | 7 |
| 16-2* | E | 1 | | | | 1 | |
| 16S-3* | B | 1 | | | | | 1 |
| 16S-4* | D | 2 | | | | | 2 |
| 16-7* | A | 3 | | | 1 | | 2 |
| 16S-8 | A | 5 | | | | | 5 |
| 16-9 | A | 4 | | | | 2 | 2 |
| 16-10 | A | 3 | | | | 3 | |
| 16-11 | A | 2 | | | | 2 | |
| 16-12 | A | 1 | | 1 | | | |
| 16-13 | A | 2 | | | | 2 | |
| 18-1 | A/Inst. | 10 | | | | | 10 |
| 18-4 | D | 4 | | | | | 4 |
| 18-5• | D | 3 | | | | 2 | 1 |
| 18-6* | D | 1 | | 1 | | | |
| 18-7* | B | 1 | | | 1 | | |
| 18-8 | A | 8 | | | | 1 | 7 |
| 18-9 | Inst. | 7 | | | | 2 | 5 |
| 18-10** | A | 4 | | | | 4 | |
| 18-11 | A | 5 | | | | 5 | |
| 18-12 | A | 6 | | | | | 6 |
| 18-13 | A | 4 | | | 1 | 3 | |
| 18-14* | A | 2 | | 1 | | | 1 |
| 18-15 | A | 4 | | | | 4 | |
| 18-16* | C | 1 | | | | 1 | |
| 18-17 | Inst. | 7 | | | | 2 | 5 |
| 18-18 | Inst. | 7 | | | | 2 | 5 |
| 18-19** | A | 10 | | | | | 10 |
| 18-22** | D | 3 | | | | | 3 |

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | |
|--------------------|----------------|----------------|--------------|---|---|----|----|
| | | | 0 | 4 | 8 | 12 | 16 |
| 18-23 | A/Inst. | 10 | | | | | 10 |
| 18-24 | A/Inst. | 10 | | | | | 10 |
| 18-27• | D | 3 | | | | 2 | 1 |
| 18-28• | D | 3 | | | | 2 | 1 |
| 20-2 | D | 1 | 1 | | | | |
| 20-4 | D | 4 | | | | 4 | |
| 20-7 | D/A | 8 | | | | | 8 |
| 20-8 | Inst. | 6 | | | | 2 | 4 |
| 20-9* | D/A | 8 | | | | 1 | 7 |
| 20-14 | A | 5 | | | | 2 | 3 |
| 20-15 | A | 7 | | | | 7 | |
| 20-16 | A | 9 | | | | 2 | 7 |
| 20-17 | A | 6 | | | | 5 | 1 |
| 20-18 | A | 9 | | | | 3 | 6 |
| 20-19 | A | 3 | | | | 3 | |
| 20-21 | A | 9 | | | | 1 | 8 |
| 20-22 | A | 6 | | | | 3 | 3 |
| 20-24 | A | 4 | | | | 2 | 2 |
| 20-27 | A | 14 | | | | | 14 |
| 20-29 | A | 17 | | | | | 17 |
| 20-32 | D/A | 8 | | | | | 8 |
| 20-33 | A | 11 | | | | | 11 |
| 22-2 | D | 3 | | | | 3 | |
| 22-4** | A | 4 | | | | 2 | 2 |
| 22-5 | D | 6 | | | | 2 | 4 |
| 22-6* | D | 3 | | | | 2 | 1 |
| 22-7* | E | 1 | 1 | | | | |
| 22-9* | E | 3 | | | | 3 | |
| 22-10* | E | 4 | | | | | 4 |
| 22-11* | B | 2 | | | | | 2 |
| 22-12* | D | 5 | | | | 2 | 3 |
| 22-14 | A | 19 | | | | | 19 |
| 22-15* | E/A | 6 | | | | 5 | 1 |
| 22-17* | D/A | 9 | | | | 1 | 8 |
| 22-18* | D/A | 8 | | | | | 8 |
| 22-19 | A | 14 | | | | | 14 |
| 22-21 | A | 3 | 1 | | | | 2 |
| 22-22 | A | 4 | | | | 4 | |
| 22-23 | D/A | 8 | | | | 8 | |
| 22-27* | D/A | 9 | | | | 1 | 8 |
| 22-30 | A | 19 | | | | | 19 |
| 22-32 | D | 6 | | | | 2 | 4 |
| 22-36* | D/A | 8 | | | | 8 | |
| 24-1** | D | 2 | 1 | | | 1 | |
| 24-2 | D | 7 | | | | 7 | |
| 24-4* | D | 4 | 1 | | | | 3 |
| 24-5** | A | 16 | | | | | 16 |
| 24-6* | D/A | 8 | | | | 8 | |

* Consult Amphenol, Sidney, NY for availability

** Inactive for new design

• Socket Only

MIL-DTL-5015 Crimp Rear Release

Insert Availability and Identification



| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | |
|--------------------|----------------|----------------|--------------|---|---|----|----|
| | | | 0 | 4 | 8 | 12 | 16 |
| 24-7 | A | 16 | | | | 2 | 14 |
| 24-10 | A | 7 | | | 7 | | |
| 24-11 | A | 9 | | | 3 | 6 | |
| 24-12 | A | 5 | | 2 | | 3 | |
| 24-15 | A | 16 | | | | | 16 |
| 24-16* | D/A | 7 | | | 1 | 3 | 3 |
| 24-20 | D | 11 | | | | 2 | 9 |
| 24-21* | D | 10 | | | 1 | | 9 |
| 24-22 | D | 4 | | | 4 | | |
| 24-24 | A | 16 | | | | | 16 |
| 24-27* | E | 7 | | | | | 7 |
| 24-28 | Inst. | 24 | | | | | 24 |
| 24-80* | Inst. | 23 | | | | | 23 |
| 28-1 | D/A | 9 | | | 3 | 6 | |
| 28-2 | D | 14 | | | | 2 | 12 |
| 28-3* | E | 3 | | | 3 | | |
| 28-4* | E/D | 9 | | | | 2 | 7 |
| 28-5* | D | 5 | | 2 | | 1 | 2 |
| 28-8* | E/D/A | 12 | | | | 2 | 10 |
| 28-9 | D | 12 | | | | 6 | 6 |
| 28-10 | D/A | 7 | | 2 | 2 | 3 | |
| 28-11 | A | 22 | | | | 4 | 18 |
| 28-12 | A | 26 | | | | | 26 |
| 28-13 | A | 26 | | | | | 26 |
| 28-15 | A | 35 | | | | | 35 |
| 28-16* | A | 20 | | | | | 20 |
| 28-17 | B/D/A | 15 | | | | | 15 |
| 28-18* | C/D/A/Inst. | 12 | | | | | 12 |
| 28-19* | B/D/A | 10 | | | | 4 | 6 |
| 28-20 | A | 14 | | | | 10 | 4 |
| 28-21 | A | 37 | | | | | 37 |
| 28-22 | D | 6 | | 3 | | | 3 |
| 32-1 | E/D | 5 | 2 | | | 3 | |
| 32-2* | E | 5 | | 3 | | | 2 |
| 32-3* | D | 9 | 1 | 2 | | 2 | 4 |
| 32-6 | A | 23 | | 2 | 3 | 2 | 16 |
| 32-7 | Inst./A | 35 | | | | 7 | 28 |
| 32-9 | D | 14 | | 2 | | | 12 |
| 32-13 | D | 23 | | | | 5 | 18 |
| 32-15 | D | 8 | 2 | | | 6 | |
| 32-16 | A | 23 | | 2 | 3 | 2 | 16 |
| 32-17 | D | 4 | | 4 | | | |
| 32-19 | E/D | 5 | 2 | | | 3 | |
| 32-20 | A | 23 | | 2 | 3 | 2 | 16 |

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | |
|--------------------|----------------|----------------|--------------|---|---|----|----|
| | | | 0 | 4 | 8 | 12 | 16 |
| 32-22* | A | 54 | | | | | 54 |
| 32-63 | D | 5 | | 5 | | | |
| 32-73 | A | 46 | | | | | 46 |
| 36-3 | D | 6 | 3 | | | 3 | |
| 36-5 | A | 4 | 4 | | | | |
| 36-6 | A | 6 | 2 | 4 | | | |
| 36-7 | A | 47 | | | | 7 | 40 |
| 36-8 | A | 47 | | | | 1 | 46 |
| 36-9 | A | 31 | | 1 | 2 | 14 | 14 |
| 36-10 | A | 48 | | | | | 48 |
| 36-11 | A | 48 | | | | | 48 |
| 36-12 | A | 48 | | | | | 48 |
| 36-15 | D/A | 35 | | | | | 35 |
| 36-16 | A | 47 | | | | 7 | 40 |
| 36-17 | A | 47 | | | | 7 | 40 |
| 36-18 | A | 31 | | 1 | 2 | 14 | 14 |
| 36-21 | A | 31 | | 1 | 2 | 14 | 14 |
| 36-52 | A | 52 | | | | | 52 |
| 36-66* | A | 56 | | | | 4 | 52 |
| 40-1 | D | 30 | | | | 6 | 24 |
| 40-2* | D | 23 | | | | | 23 |
| 40-3* | D | 23 | | 1 | | 4 | 18 |
| 40-4* | D | 23 | | 2 | 3 | 2 | 16 |
| 40-5* | A | 15 | 3 | 2 | 4 | 6 | |
| 40-6* | D | 26 | 1 | | | 1 | 24 |
| 40-7* | A/D | 22 | 2 | | | 2 | 18 |
| 40-9 | A | 47 | | | 1 | 22 | 24 |
| 40-10* | A | 29 | | 4 | 9 | | 16 |
| 40-11* | D | 25 | 1 | 1 | 1 | 4 | 18 |
| 40-56 | A | 85 | | | | | 85 |
| 40-62* | A | 60 | | | | | 60 |

* Consult Amphenol, Sidney, NY for availability
 ** Inactive for new design

III
II
I
SJT
38999

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

Front Face of Pin Insert or Rear Face of Socket Insert Illustrated

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



| | | | | | | | |
|---------------------------|------|-------|--------|--------|-------|-------|-------|
| Insert Arrangement | 8S-1 | 10S-2 | 10SL-3 | 10SL-4 | 12S-1 | 12S-2 | 12S-3 |
| Service Rating | A | A | A*** | A | A | A | A |
| Number of Contacts | 1 | 1 | 3 | 2 | 2 | 2 | 2 |
| Contact Size | 16 | 16 | 16 | 16 | 16 | 16 | 16 |



| | | | | | | | |
|---------------------------|-------|------|---------|-------|------|-------|-------|
| Insert Arrangement | 12S-4 | 12-5 | 14S-1** | 14S-2 | 14-3 | 14S-5 | 14S-6 |
| Service Rating | D | D | A | Inst. | A | Inst. | Inst. |
| Number of Contacts | 1 | 1 | 3 | 4 | 1 | 5 | 6 |
| Contact Size | 16 | 12 | 16 | 16 | 8 | 16 | 16 |



| | | | | | | |
|---------------------------|-------|---------|--------|--------|--------|--------|
| Insert Arrangement | 14S-7 | 14S-9** | 14S-10 | 14S-11 | 14S-12 | 14S-13 |
| Service Rating | A | A | Inst. | Inst. | A | A |
| Number of Contacts | 3 | 2 | 4 | 4 | 3 | 3 |
| Contact Size | 16 | 16 | 16 | 16 | 16 | 16 |



| | | | | | | |
|---------------------------|-------|-------|--------|--------|-------|-------|
| Insert Arrangement | 16S-1 | 16-2* | 16S-3* | 16S-4* | 16-7* | 16S-8 |
| Service Rating | A | E | B | D | A | A |
| Number of Contacts | 7 | 1 | 1 | 2 | 1 2 | 5 |
| Contact Size | 16 | 12 | 16 | 16 | 8 16 | 16 |



| | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|------------------------------|
| Insert Arrangement | 16-9 | 16-10 | 16-11 | 16-12 | 16-13 | 18-1 |
| Service Rating | A | A | A | A | A | B, C, F, G = A; Bal. = Inst. |
| Number of Contacts | 2 2 | 3 | 2 | 1 | 2† | 10 |
| Contact Size | 12 16 | 12 | 12 | 4 | 12 | 16 |

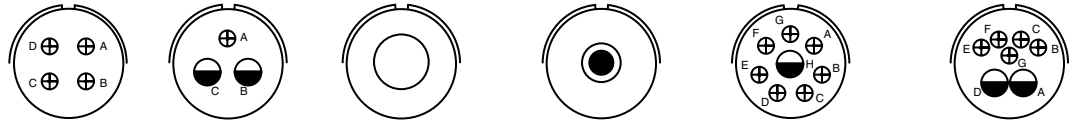
* Consult Amphenol, Sidney, NY for availability.
 ** Inactive for new design
 *** Service rating Inst. Class K
 † one Iron contact and one Constantan contact

CONTACT LEGEND

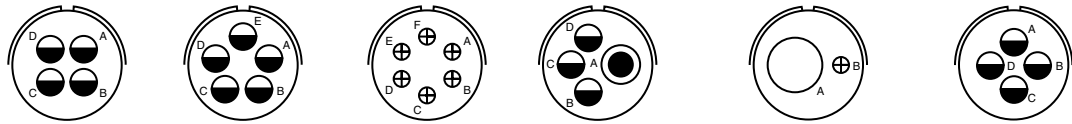


MIL-DTL-5015 Crimp Rear Release Insert Arrangements

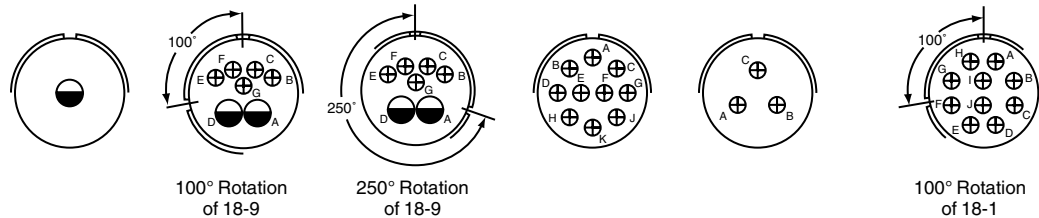
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



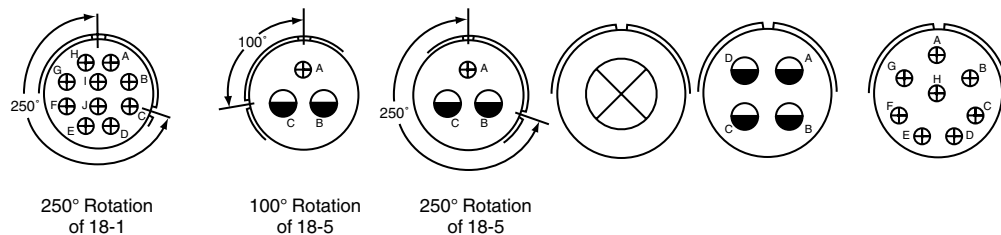
| Insert Arrangement | 18-4 | 18-5 • | 18-6* | 18-7* | 18-8* | 18-9 |
|--------------------|------|--------|-------|-------|-------|-------|
| Service Rating | D | D | D | B | A | Inst. |
| Number of Contacts | 4 | 2 1 | 1 | 1 | 1 7 | 2 5 |
| Contact Size | 16 | 12 16 | 4 | 8 | 12 16 | 12 16 |



| Insert Arrangement | 18-10** | 18-11 | 18-12 | 18-13 | 18-14* | 18-15 |
|--------------------|---------|-------|-------|-------|--------|-------|
| Service Rating | A | A | A | A | A | A |
| Number of Contacts | 4 | 5 | 6 | 1 3 | 1 1 | 4†† |
| Contact Size | 12 | 12 | 16 | 8 12 | 4 16 | 12 |



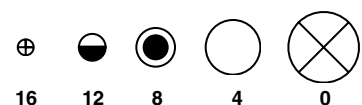
| Insert Arrangement | 18-16* | 18-17 | 18-18 | 18-19** | 18-22** | 18-23 |
|--------------------|--------|-------|-------|---------|---------|------------------------------|
| Service Rating | C | Inst. | Inst. | A | D | B, C, F, G = A; Bal. = Inst. |
| Number of Contacts | 1 | 2 5 | 2 5 | 10 | 3 | 10 |
| Contact Size | 12 | 12 16 | 12 16 | 16 | 16 | 16 |



| Insert Arrangement | 18-24 | 18-27 • | 18-28 • | 20-2 | 20-4 | 20-7 |
|--------------------|------------------------------|---------|---------|------|------|--------------------------------|
| Service Rating | B, C, F, G = A; Bal. = Inst. | D | D | D | D | A, B, G, H = D; C, D, E, F = A |
| Number of Contacts | 10 | 2 1 | 2 1 | 1 | 4 | 8 |
| Contact Size | 16 | 12 16 | 12 16 | 0 | 12 | 16 |

* Consult Amphenol, Sidney, NY for availability.
 ** Inactive for new design\
 • Socket only
 † one Iron contact and one Constantan contact
 †† A, C = Iron; B, D = Constantan

CONTACT LEGEND



38999
SJT

26482
Matrix 2

83723 III
Pyle

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

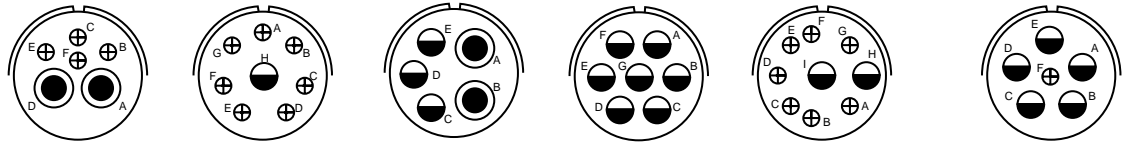
EMI Filter
Transient

Fiber Optics

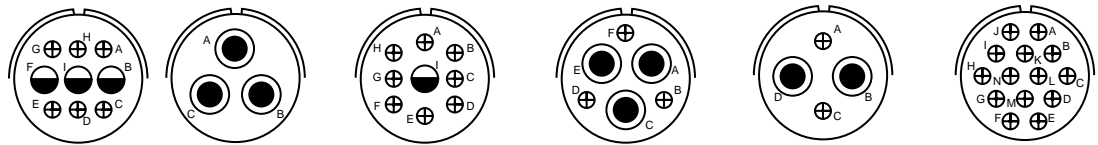
High Speed
Contacts

Options
Others

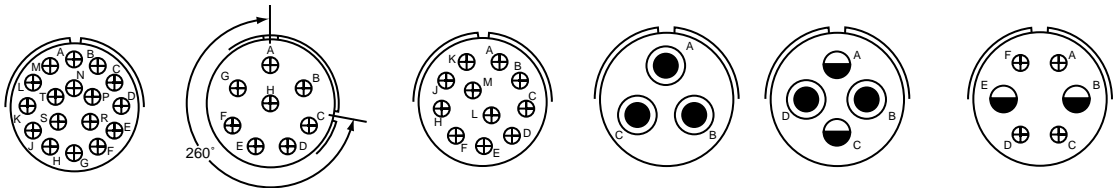
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



| Insert Arrangement | 20-8* | | 20-9* | | 20-14 | | 20-15 | | 20-16 | | 20-17 | |
|--------------------|-------|----|-----------------|----|-------|----|-------|----|-------|----|-------|----|
| Service Rating | Inst. | | H = D; Bal. = A | | A | | A | | A | | A | |
| Number of Contacts | 2 | 4 | 1 | 7 | 2 | 3 | 7 | 7 | 2 | 7 | 5 | 1 |
| Contact Size | 8 | 16 | 12 | 16 | 8 | 12 | 12 | 12 | 12 | 16 | 12 | 16 |

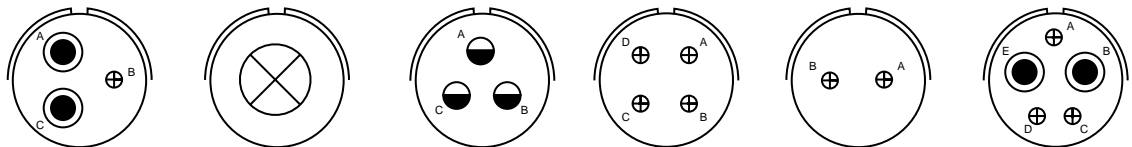


| Insert Arrangement | 20-18 | | 20-19 | | 20-21 | | 20-22 | | 20-24 | | 20-27 | |
|--------------------|-------|----|-------|---|-------|----|-------|----|-------|----|-------|--|
| Service Rating | A | | A | | A | | A | | A | | A | |
| Number of Contacts | 3 | 6 | 3 | 3 | 1 | 8 | 3 | 3 | 2 | 2 | 14 | |
| Contact Size | 12 | 16 | 8 | 8 | 12 | 16 | 8 | 16 | 8 | 16 | 16 | |

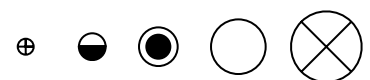


260° Rotation of 20-7

| Insert Arrangement | 20-29 | | 20-32 | | 20-33 | | 22-2 | | 22-4** | | 22-5 | |
|--------------------|-------|----|--------------------------|----|-------|----|------|---|--------|----|------|----|
| Service Rating | A | | A, B, G, H = D; Bal. = A | | A | | D | | A | | D | |
| Number of Contacts | 17 | 17 | 8 | 8 | 11 | 11 | 3 | 3 | 2 | 2 | 2 | 4 |
| Contact Size | 16 | 16 | 16 | 16 | 16 | 16 | 8 | 8 | 8 | 12 | 12 | 16 |



| Insert Arrangement | 22-6** | | 22-7* | | 22-9* | | 22-10* | | 22-11* | | 22-12* | |
|--------------------|--------|----|-------|---|-------|----|--------|----|--------|----|--------|----|
| Service Rating | D | | E | | E | | E | | B | | D | |
| Number of Contacts | 2 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | 3 |
| Contact Size | 8 | 16 | 0 | 0 | 12 | 12 | 16 | 16 | 16 | 16 | 8 | 16 |



* Consult Amphenol, Sidney, NY for availability.

CONTACT LEGEND

16 12 8 4 0

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

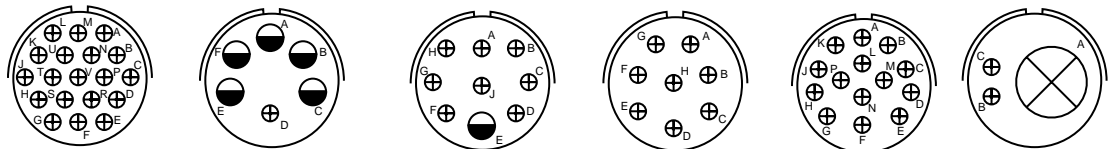
Fiber Optics

High Speed
Contacts

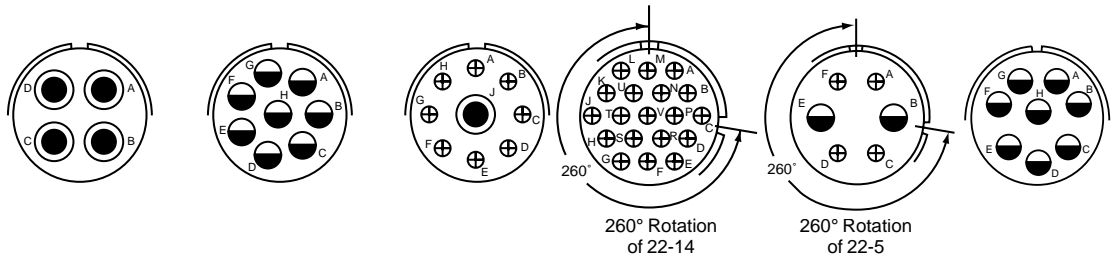
Options
Others

MIL-DTL-5015 Crimp Rear Release Insert Arrangements

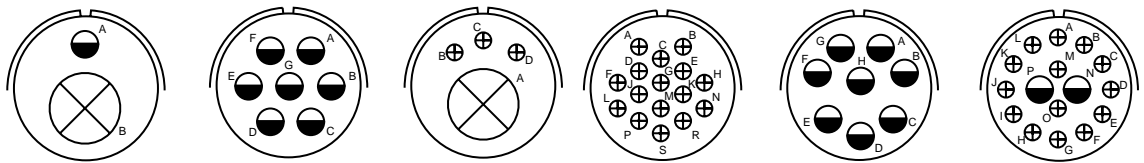
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



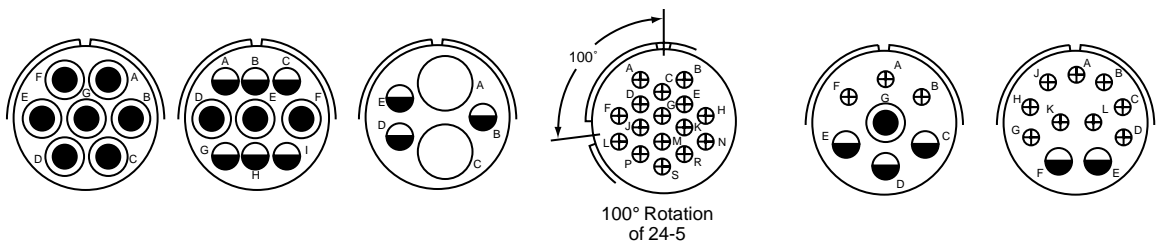
| Insert Arrangement | 22-14 | 22-15* | | 22-17* | | 22-18* | | 22-19 | | 22-21 | |
|--------------------|-------|-----------------|----|-----------------|----|-----------------------|--|-------|--|-------|----|
| Service Rating | A | D = 3; Bal. = A | | A = D; Bal. = A | | C, D, E = A; Bal. = D | | A | | A | |
| Number of Contacts | 19 | 5 | 1 | 1 | 8 | 8 | | 14 | | 1 | 2 |
| Contact Size | 16 | 12 | 16 | 12 | 16 | 16 | | 16 | | 0 | 16 |



| Insert Arrangement | 22-22 | 22-23 | | 22-27* | | 22-30 | | 22-32 | | 22-36* | |
|--------------------|-------|-----------------|--|-----------------|----|-------|--|-------|----|-----------------|--|
| Service Rating | A | H = D; Bal. = A | | J = D; Bal. = A | | A | | D | | H = D; Bal. = A | |
| Number of Contacts | 4 | 8 | | 1 | 8 | 19 | | 2 | 4 | 8 | |
| Contact Size | 8 | 12 | | 8 | 16 | 16 | | 12 | 16 | 12 | |



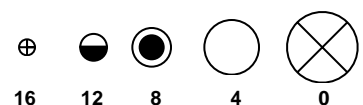
| Insert Arrangement | 24-1** | | 24-2 | | 24-4* | | 24-5** | | 24-6* | | 24-7 | |
|--------------------|--------|----|------|--|-------|----|--------|--|-----------------------|--|------|----|
| Service Rating | D | | D | | D | | A | | A, G, H = D; Bal. = A | | A | |
| Number of Contacts | 1 | 1 | 7 | | 1 | 3 | 16 | | 8 | | 2 | 14 |
| Contact Size | 0 | 12 | 12 | | 0 | 16 | 16 | | 12 | | 12 | 16 |



| Insert Arrangement | 24-10 | | 24-11 | | 24-12 | | 24-15 | | 24-16* | | | 24-20 | |
|--------------------|-------|--|-------|----|-------|----|-------|--|-----------------------------|----|----|-------|----|
| Service Rating | A | | A | | A | | A | | A, B, F, G = D; C, D, E = A | | | D | |
| Number of Contacts | 7 | | 3 | 6 | 2 | 3 | 16 | | 1 | 3 | 3 | 2 | 9 |
| Contact Size | 8 | | 8 | 12 | 4 | 12 | 16 | | 8 | 12 | 16 | 12 | 16 |

* Consult Amphenol, Sidney, NY for availability.
 ** Inactive for new design

CONTACT LEGEND



38999
SJT

26482
Matrix 2

83723 III
Pyle

5015
Crimp Rear Release Matrix

26500 Pyle

Printed
Circuit Board

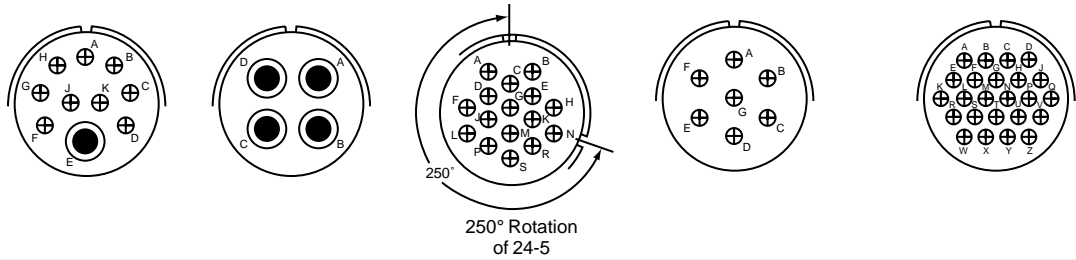
EMI Filter
Transient

Fiber Optics

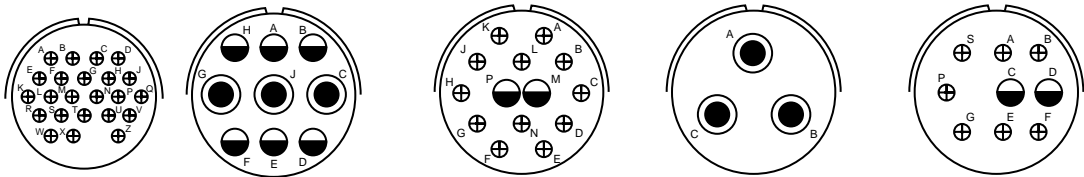
High Speed
Contacts

Options
Others

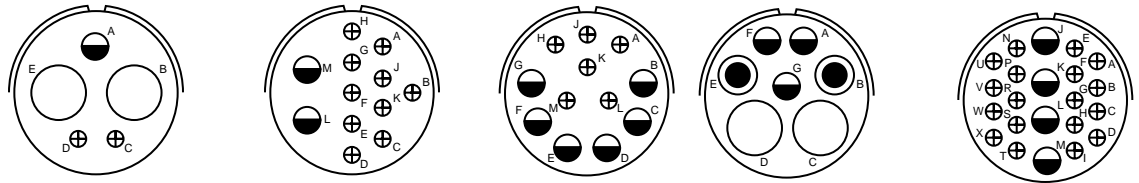
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



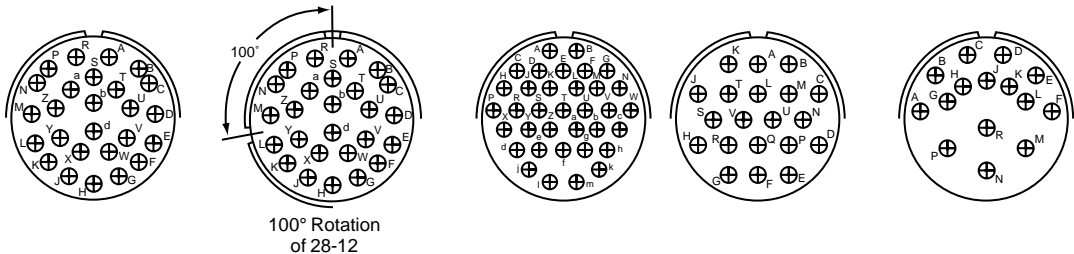
| Insert Arrangement | 24-21* | | 24-22 | | 24-24 | | 24-27* | | 24-28 | |
|--------------------|--------|----|-------|---|-------|----|--------|----|-------|--|
| Service Rating | D | | D | | A | | E | | Inst. | |
| Number of Contacts | 1 | 9 | 4 | 8 | 16 | 16 | 7 | 16 | 24 | |
| Contact Size | 8 | 16 | 8 | 8 | 16 | 16 | 16 | 16 | 16 | |



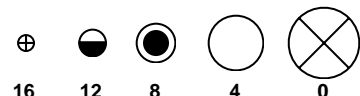
| Insert Arrangement | 24-80* | | 28-1 | | 28-2 | | 28-3* | | 28-4* | |
|--------------------|--------|----|-----------------------|----|------|----|-------|---|-----------------------|----|
| Service Rating | Inst. | | A, J, E = D; Bal. = A | | D | | E | | G, P, S = E; Bal. = D | |
| Number of Contacts | 23 | 16 | 3 | 6 | 2 | 12 | 3 | 8 | 2 | 7 |
| Contact Size | 16 | 16 | 8 | 12 | 12 | 16 | 8 | 8 | 12 | 16 |



| Insert Arrangement | 28-5* | | | 28-8* | | 28-9 | | 28-10 | | | 28-11 | |
|--------------------|-------|----|----|---------------------------|----|------|----|-----------------|---|----|-------|----|
| Service Rating | D | | | L, M = E; B = D; Bal. = A | | D | | G = D, Bal. = A | | | A | |
| Number of Contacts | 2 | 1 | 2 | 2 | 10 | 6 | 6 | 2 | 2 | 3 | 4 | 18 |
| Contact Size | 4 | 12 | 16 | 12 | 16 | 12 | 16 | 4 | 8 | 12 | 12 | 16 |



| Insert Arrangement | 28-12 | | 28-13 | | 28-15 | | 28-16** | | 28-17 | |
|--------------------|-------|--|-------|--|-------|--|---------|--|------------------------------|--|
| Service Rating | A | | A | | A | | A | | R = B; M, N, P = D; Bal. = A | |
| Number of Contacts | 26 | | 26 | | 35 | | 20 | | 15 | |
| Contact Size | 16 | | 16 | | 16 | | 16 | | 16 | |



* Consult Amphenol, Sidney, NY for availability.

CONTACT LEGEND

16 12 8 4 0

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

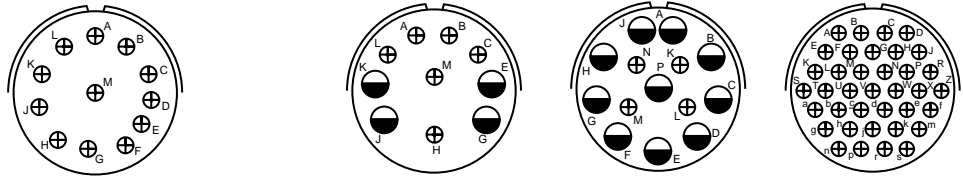
Fiber Optics

High Speed
Contacts

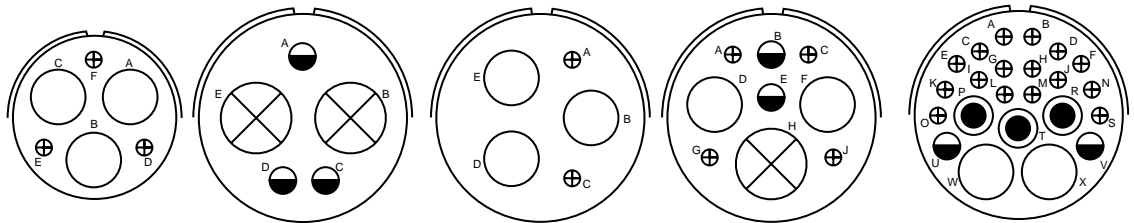
Options
Others

MIL-DTL-5015 Crimp Rear Release Insert Arrangements

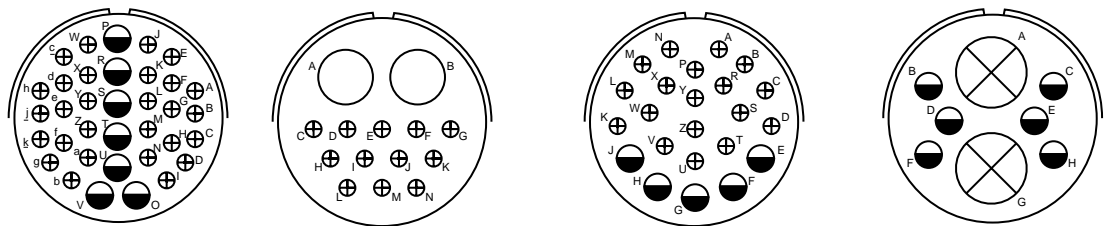
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



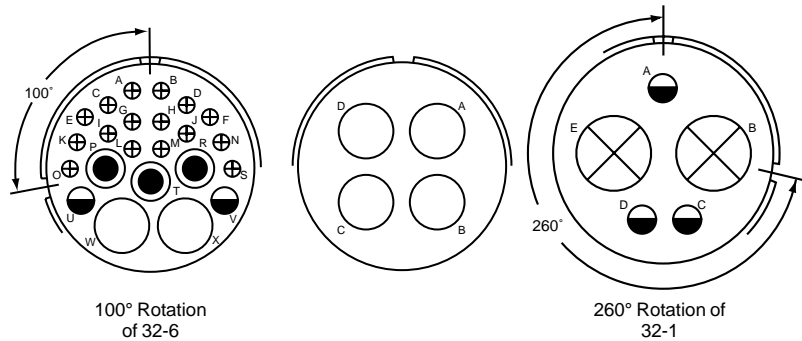
| Insert Arrangement | 28-18* | 28-19* | 28-20 | 28-21 |
|--------------------|--|------------------------------|----------|-------|
| Service Rating | M = C; G, H, J, K, L = D; A, B = A; Bal. = Inst. | H, M = B; A, B = D; Bal. = A | A | A |
| Number of Contacts | 12 | 4 6 | 10 4 | 37 |
| Contact Size | 16 | 12 16 | 12 16 | 16 |



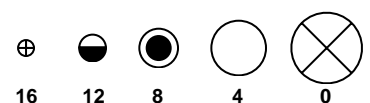
| Insert Arrangement | 28-22 | 32-1 | 32-2* | 32-3* | 32-6 |
|--------------------|---------|-----------------------|---------|--------------------|--------------------|
| Service Rating | D | A = E; B, C, D, E = D | E | D | A |
| Number of Contacts | 3 3 | 2 3 | 3 2 | 1 2 2 4 | 2 3 2 16 |
| Contact Size | 4 16 | 0 12 | 4 16 | 0 4 12 16 | 4 8 12 16 |



| Insert Arrangement | 32-7 | 32-9 | 32-13 | 32-15 |
|--------------------|------------------------------|-----------|----------------------|-----------|
| Service Rating | A, B, h, j = Inst.; Bal. = A | D | D | D |
| Number of Contacts | 7 28 | 2 12 | 5 18 2 4 | 2 6 |
| Contact Size | 12 16 | 4 16 | 12 16 12 16 | 0 12 |



| Insert Arrangement | 32-16 | 32-17 | 32-19 |
|--------------------|--------------------|-------|-----------------|
| Service Rating | A | D | A = E, Bal. = D |
| Number of Contacts | 2 3 2 16 | 4 | 2 3 |
| Contact Size | 4 8 12 16 | 4 | 0 12 |



* Consult Amphenol, Sidney, NY for availability.
 ** Inactive for new design

38999
SJT

26482
Matrix 2

83723 III
Pyle

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

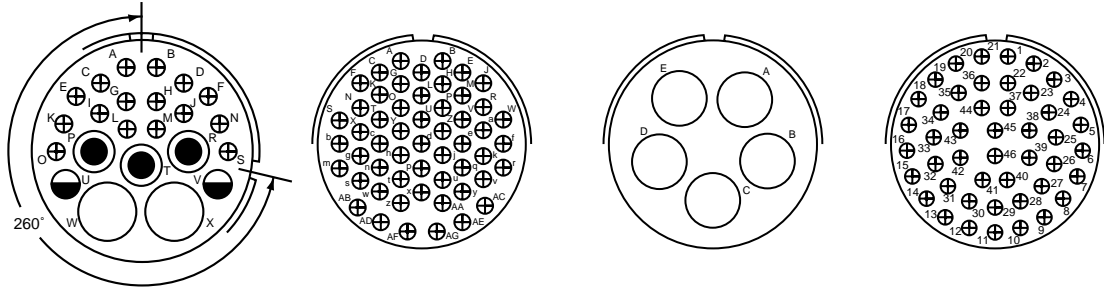
EMI Filter
Transient

Fiber Optics

High Speed
Contacts

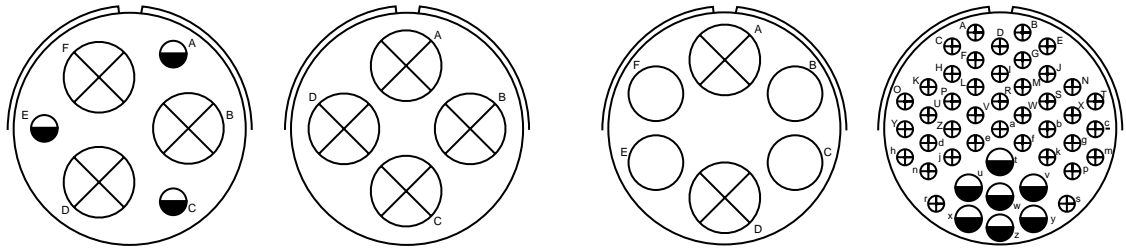
Options
Others

Front Face of Pin Insert or Rear Face of Socket Insert Illustrated

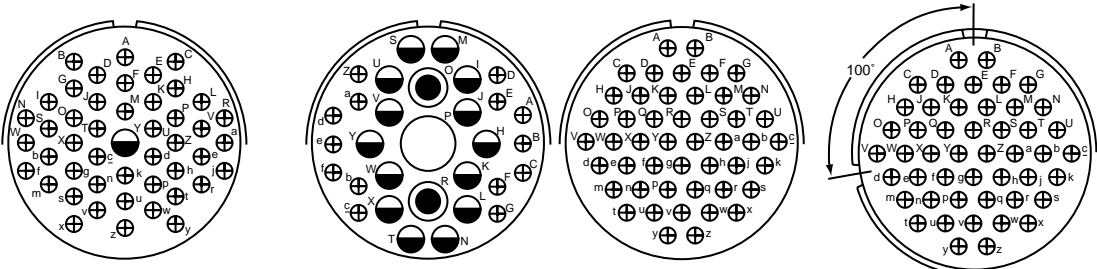


260° Rotation of 32-6

| Insert Arrangement | 32-20 | | | | 32-22* | | | | 32-63 | | | | 32-73 | | | |
|--------------------|-------|---|----|----|--------|--|--|--|-------|--|--|--|-------|--|--|--|
| Service Rating | A | | | | A | | | | D | | | | A | | | |
| Number of Contacts | 2 | 3 | 2 | 16 | 54 | | | | 5 | | | | 46 | | | |
| Contact Size | 4 | 8 | 12 | 16 | 16 | | | | 4 | | | | 16 | | | |

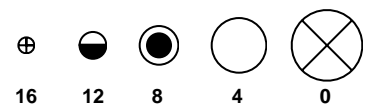


| Insert Arrangement | 36-3 | | 36-5 | | 36-6 | | 36-7 | |
|--------------------|------|----|------|--|------|---|------|----|
| Service Rating | D | | A | | A | | A | |
| Number of Contacts | 3 | 3 | 4 | | 2 | 4 | 7 | 40 |
| Contact Size | 0 | 12 | 0 | | 0 | 4 | 12 | 16 |



100° Rotation of 36-10

| Insert Arrangement | 36-8 | | 36-9 | | | | 36-10 | | | | 36-11 | | | |
|--------------------|------|----|------|---|----|----|-------|--|--|--|-------|--|--|--|
| Service Rating | A | | A | | | | A | | | | A | | | |
| Number of Contacts | 1 | 46 | 1 | 2 | 14 | 14 | 48 | | | | 48 | | | |
| Contact Size | 12 | 16 | 4 | 8 | 12 | 16 | 16 | | | | 16 | | | |



* Consult Amphenol, Sidney, NY for availability.

CONTACT LEGEND

16 12 8 4 0

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

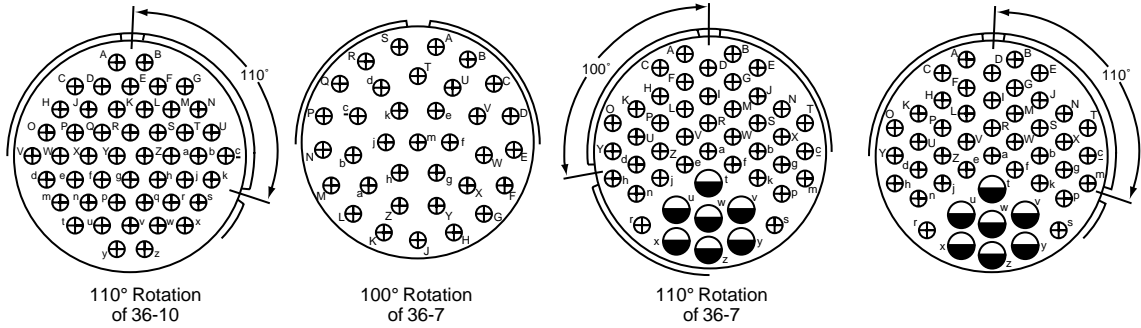
Fiber Optics

High Speed
Contacts

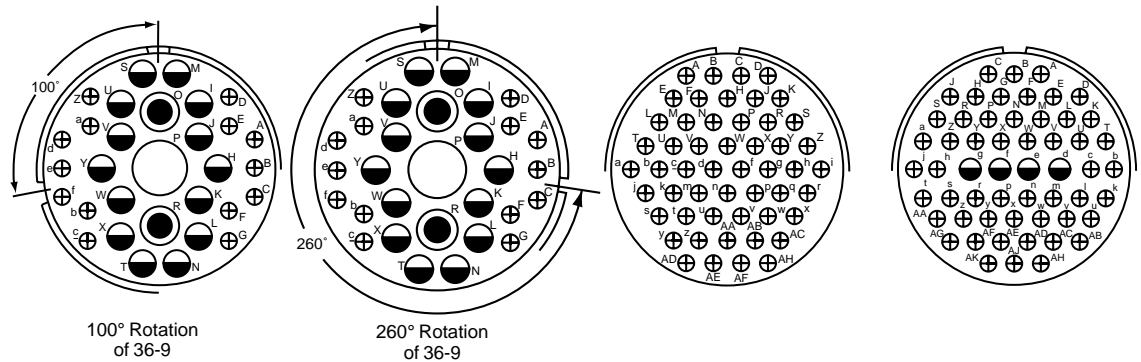
Options
Others

MIL-DTL-5015 Crimp Rear Release Insert Arrangements

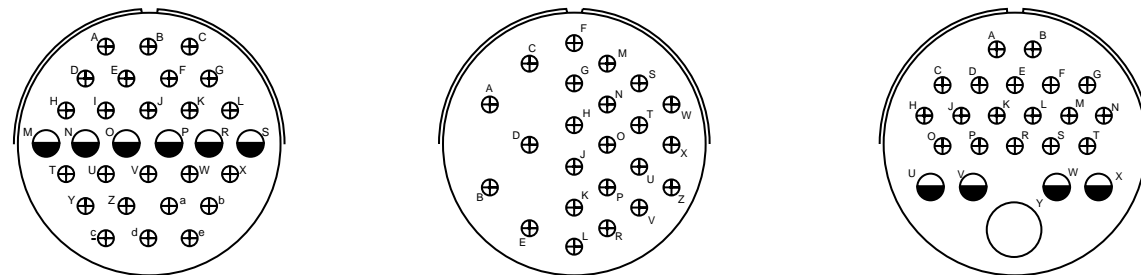
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



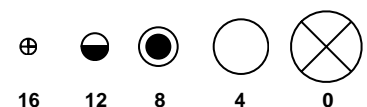
| Insert Arrangement | 36-12 | 36-15 | 36-16 | | 36-17 | |
|--------------------|-------|-----------------|-------|----|-------|----|
| Service Rating | A | M = D, Bal. = A | A | | A | |
| Number of Contacts | 48 | 35 | 7 | 40 | 7 | 40 |
| Contact Size | 16 | 16 | 12 | 16 | 12 | 16 |



| Insert Arrangement | 36-18 | | | | 36-21 | | | | 36-52 | 36-66* | |
|--------------------|-------|---|----|----|-------|---|----|----|-------|--------|----|
| Service Rating | A | | | | A | | | | A | A | |
| Number of Contacts | 1 | 2 | 14 | 14 | 1 | 2 | 14 | 14 | 52 | 4 | 52 |
| Contact Size | 4 | 8 | 12 | 16 | 4 | 8 | 12 | 16 | 16 | 12 | 16 |



| Insert Arrangement | 40-1 | | 40-2* | 40-3* | | |
|--------------------|------|----|-------|-------|----|----|
| Service Rating | D | | D | D | | |
| Number of Contacts | 6 | 24 | 23 | 1 | 4 | 18 |
| Contact Size | 12 | 16 | 16 | 4 | 12 | 16 |



* Consult Amphenol, Sidney, NY for availability.

38999
II
I
SJT

26482
Matrix 2

83723 III
Matrix
Pyle

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

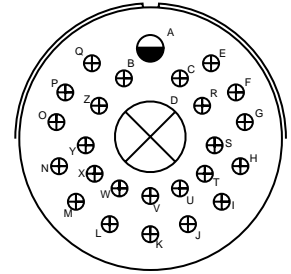
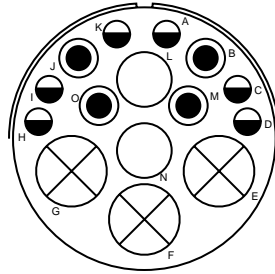
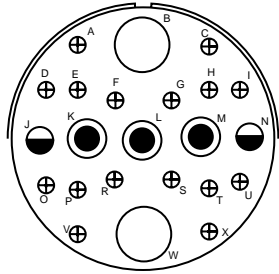
EMI Filter
Transient

Fiber Optics

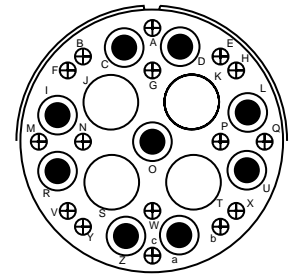
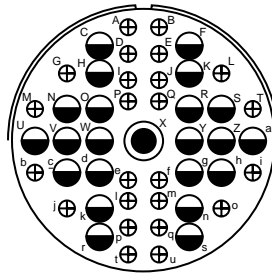
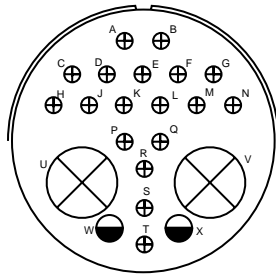
High Speed
Contacts

Options
Others

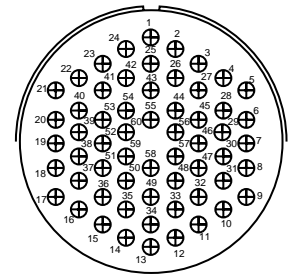
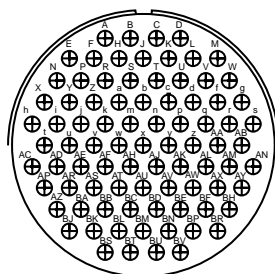
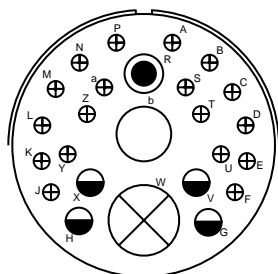
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



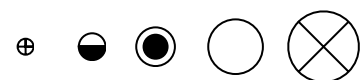
| Insert Arrangement | 40-4* | | | | 40-5* | | | | 40-6* | | |
|--------------------|-------|---|----|----|-------|---|---|----|-------|----|----|
| Service Rating | D | | | | A | | | | D | | |
| Number of Contacts | 2 | 3 | 2 | 16 | 3 | 2 | 4 | 6 | 1 | 1 | 24 |
| Contact Size | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 | 0 | 12 | 16 |



| Insert Arrangement | 40-7* | | | 40-9 | | | 40-10* | | |
|--------------------|--------------------------------|----|----|------|----|----|--------|---|----|
| Service Rating | P, Q, U, V, W, X = A; Bal. = D | | | A | | | A | | |
| Number of Contacts | 2 | 2 | 18 | 1 | 22 | 24 | 4 | 9 | 16 |
| Contact Size | 0 | 12 | 16 | 8 | 12 | 16 | 4 | 8 | 16 |



| Insert Arrangement | 40-11* | | | | | 40-56 | 40-62* |
|--------------------|--------|---|---|----|----|-------|--------|
| Service Rating | D | | | | | A | A |
| Number of Contacts | 1 | 1 | 1 | 4 | 18 | 85 | 60 |
| Contact Size | 0 | 4 | 8 | 12 | 16 | 16 | 16 |



* Consult Amphenol, Sidney, NY for availability.

CONTACT LEGEND

16

12

8

4

0

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

III
II
I
SJT

38999

Matrix 2

26482

Matrix
Pyle

83723 III

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

CLASS DESCRIPTIONS

| Military MIL-DTL-5015 | | Amphenol/Matrix | |
|-----------------------|--|-----------------|--|
| Class L* | Aluminum shell, electroless nickel finish, fluid resistant insert | Class A | Aluminum shell, black anodize finish, fluid resistant insert |
| Class W | Aluminum shell, cadmium olive drab finish, fluid resistant insert | Class F | Aluminum shell, electroless nickel finish, fluid resistant insert |
| Class LS | Stainless steel shell, passivated, fluid resistant insert | Class W | Aluminum shell, cadmium/olive drab finish, fluid resistant insert |
| Class KT** | Firewall, steel shell, cadmium olive drab finish, non-flammable hard dielectric and fluid resistant insert | Class FS | Stainless steel shell, passivated, fluid resistant insert |
| Class KS | Firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert | Class KT | Firewall, steel shell, cadmium olive drab finish, non-flammable hard dielectric and fluid resistant insert |
| | | Class KS | Firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert |

* Class L inactivates older Class U (aluminum, electroless nickel)

** Class KT (ferrous alloy, cadmium/olive drab) inactivates older Class K (ferrous alloy, electroless nickel)

PERFORMANCE SPECIFICATIONS

VOLTAGE RATING

| Altitude | Inst. | A | D | E | B | C |
|-------------|-------|------|------|------|------|------|
| Sea Level | 1000 | 2000 | 2800 | 3500 | 4500 | 7000 |
| 50,000 ft. | 400 | 600 | 675 | 750 | 825 | 975 |
| 70,000 ft. | 260 | 360 | 400 | 440 | 480 | 560 |
| 110,000 ft. | 200 | 200 | 200 | 200 | 200 | 200 |

SHOCK

Wired, mated connectors are subjected to one shock in each of three mutually perpendicular axes with pulse of an approximate half sine wave of 50g magnitude for a duration of 11 milliseconds. All contacts wired in series circuit with 100 ±10 Milliampères of current flow.

OPERATING TEMPERATURE RANGE

Classes L, LS and KS have temperature range of -55°C (-75°F) to 200°C (392°F)

Classes W and KT have temperature range of -55°C (-75°F) to 175°C (347°F)

ENVIRONMENTAL SEAL

Wired, mated connectors with the specified accessory attached will meet the altitude immersion test specified in MIL-DTL-5015.

DURABILITY

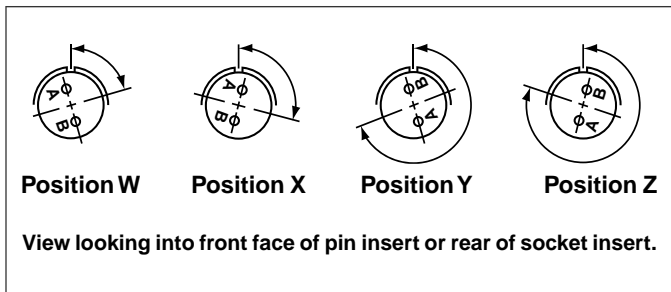
Minimum of 100 mating cycles.

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

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate rotations are available as indicated in the accompanying charts.

As shown in the diagram below, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counter-clockwise the same number of degrees in respect to the normal shell key.

The charts give the W, X, Y, Z positions for the alternate rotations available for the insert arrangements of the rear release MIL-DTL-5015 series of connectors. If an insert arrangement number is not given, then there is no available alternate rotation for that pattern.



The following insert arrangements have the same alternate insert rotations for W, X, Y and Z, which are:

| Degrees | | | |
|---------|-----|-----|-----|
| W | X | Y | Z |
| 80 | 110 | 250 | 280 |

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 16-7 | 20-22 | 24-4 | 28-4 | 28-21 | 40-3 |
| 18-5 | 22-6 | 24-5 | 28-8 | 32-1 | 40-4 |
| 18-9 | 22-12 | 24-6 | 28-9 | 32-3 | 40-5 |
| 18-13 | 22-14 | 24-7 | 28-10 | 32-6 | 40-6 |
| 18-14 | 22-15 | 24-12 | 28-11 | 32-9 | 40-7 |
| 20-7 | 22-17 | 24-16 | 28-15 | 32-13 | 40-11 |
| 20-8 | 22-18 | 24-20 | 28-16 | 32-22 | |
| 20-9 | 22-19 | 24-21 | 28-17 | 36-7 | |
| 20-14 | 22-21 | 24-28 | 28-19 | 36-8 | |
| 20-16 | 24-1 | 28-1 | 28-20 | 40-2 | |

| Insert Arrangement | Degrees | | | |
|--------------------|---------|-----|-----|-----|
| | W | X | Y | Z |
| 12S-3 | 70 | 145 | 215 | 290 |
| 14S-2 | - | 120 | 240 | - |
| 14S-5 | - | 110 | - | - |
| 14S-7 | 90 | 180 | 270 | - |
| 14S-9 | 70 | 145 | 215 | 290 |
| 16S-1 | 80 | - | - | 280 |
| 16S-4 | 35 | 110 | 250 | 325 |
| 16S-8 | - | 170 | 265 | - |
| 16-9 | 35 | 110 | 250 | 325 |
| 16-10 | 90 | 180 | 270 | - |
| 16-11 | 35 | 110 | 250 | 325 |
| 16-13 | 35 | 110 | 250 | 325 |
| 18-1 | 70 | 145 | 215 | 290 |
| 18-4 | 35 | 110 | 250 | 325 |
| 18-8 | 70 | - | - | 290 |
| 18-10 | - | 120 | 240 | - |
| 18-11 | - | 170 | 265 | - |
| 18-12 | 80 | - | - | 280 |
| 18-15 | - | 120 | 240 | - |
| 18-19 | - | 120 | 240 | - |
| 18-22 | 70 | 145 | 215 | 290 |
| 20-4 | 45 | 110 | 250 | - |
| 20-15 | 80 | - | - | 280 |

| Insert Arrangement | Degrees | | | |
|--------------------|---------|-----|-----|-----|
| | W | X | Y | Z |
| 20-17 | 90 | 180 | 270 | - |
| 20-18 | 35 | 110 | 250 | 325 |
| 20-19 | 90 | 180 | 270 | - |
| 20-21 | 35 | 110 | 250 | 325 |
| 20-24 | 35 | 110 | 250 | 325 |
| 20-27 | 35 | 110 | 250 | 325 |
| 20-29 | 80 | - | - | 280 |
| 22-2 | 70 | 145 | 215 | 290 |
| 22-4 | 35 | 110 | 250 | 325 |
| 22-5 | 35 | 110 | 250 | 325 |
| 22-9 | 70 | 145 | 215 | 290 |
| 22-10 | 35 | 110 | 250 | 325 |
| 22-11 | 35 | 110 | 250 | 325 |
| 22-22 | - | 110 | 250 | - |
| 22-23 | 35 | - | 250 | - |
| 22-27 | 80 | - | 250 | 280 |
| 22-36 | 90 | - | 270 | - |
| 24-2 | 80 | - | - | 280 |
| 24-10 | 80 | - | - | 280 |
| 24-11 | 35 | 110 | 250 | 325 |
| 24-22 | 45 | 110 | 250 | - |
| 24-27 | 80 | - | - | 280 |
| 24-80 | 35 | 145 | 240 | 300 |

| Insert Arrangement | Degrees | | | |
|--------------------|---------|-----|-----|-----|
| | W | X | Y | Z |
| 28-2 | 35 | 110 | 250 | 325 |
| 28-3 | 70 | 145 | 215 | 290 |
| 28-5 | 35 | 110 | 250 | 325 |
| 28-12 | 90 | 180 | 270 | - |
| 28-18 | 70 | 145 | 215 | 290 |
| 28-22 | 70 | 145 | 215 | 290 |
| 32-2 | 70 | 145 | 215 | 290 |
| 32-7 | 80 | 125 | 235 | 280 |
| 32-15 | 35 | 110 | 250 | 280 |
| 32-17 | 45 | 110 | 250 | - |
| 32-73 | 36 | - | - | - |
| 36-3 | 70 | 145 | 215 | 290 |
| 36-5 | - | 120 | 240 | - |
| 36-6 | 35 | 110 | 250 | 325 |
| 36-9 | 80 | 125 | 235 | 280 |
| 36-10 | 80 | 125 | 235 | 280 |
| 36-15 | 60 | 125 | 245 | 305 |
| 36-52 | 72 | 144 | 216 | 288 |
| 36-66 | 110 | 250 | 260 | 280 |
| 40-1 | 65 | 130 | 235 | 300 |
| 40-9 | 65 | 125 | 255 | 310 |
| 40-10 | 65 | 125 | 255 | 310 |
| 40-56 | 72 | 144 | 216 | 288 |
| 40-62 | 30 | 130 | 220 | 290 |

| | 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|---|----------------|-------------|---------------|-------------------------------|---------------|---------------------|---------------------|
| MIL-DTL-5015 with rear release crimp contacts | Connector Type | Shell Style | Service class | Shell Size–Insert Arrangement | Contact Types | Alternate Positions | Modification Number |
| MILITARY | MS | 3456 | L | 16S-8 | P | W | NA |
| COMMERCIAL | 944 | 6 | F | 16S-8 | P | W | (XXX) |

Step 1. Military Connector Type

| | |
|-----------|------------------------------|
| MS | Designates Military Standard |
|-----------|------------------------------|

Step 2. Select a Shell Style

THREADED COUPLING CONNECTORS

| | |
|-------------|--|
| 3450 | Wall mounting receptacle |
| 3451 | Cable connecting receptacle |
| 3452 | Box mounting receptacle |
| 3454 | Jam nut receptacle |
| 3456 | Straight plug |
| 3459 | Straight plug with self-locking coupling nut |

Step 3. Select a Service Class

| | |
|---|--|
| L | Aluminum shell, electroless nickel finish, fluid resistant insert |
| W | Aluminum shell, cadmium olive drab finish, fluid resistant insert |
| LS | Stainless steel shell, passivated, fluid resistant insert |
| Firewall Styles only available for 3450, 3456, 3459 per mil spec: | |
| KT | Firewall, steel shell, cadmium/olive drab finish, non-flammable hard dielectric and fluid resistant insert |
| KS | Firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert |

Note: Class L inactivates older Class U.
Class K is inactive and has been replaced by Class KT for all applications.

Step 4. Select a Shell Size & Insert Arrangement see pages 172 & 173

Shell Size & Insert Arrangements are on pages 172 & 173. First number represents Shell Size, second number is the Insert Arrangement.

Step 5. Select a Contact Type

| | |
|----------|--------------|
| | Designates |
| P | Pin |
| S | Socket |
| A | Less pins |
| B | Less sockets |

Step 6. Alternate Positions

“W”, “X”, “Y”, “Z” designate that insert is rotated in its shell from normal position. No letter required for normal (no rotation) position. See page 184 for description of alternate positions.

Step 1. Select a Commercial Connector Type

| | |
|------------|---|
| 944 | Designates Amphenol/Matrix Commercial Series |
| 981 | Designates self locking/Quick disconnect (+)(-) lanyard |

Step 2. Select a Shell Style

THREADED COUPLING CONNECTORS

| | |
|---|--|
| 0 | Wall mounting receptacle |
| 1 | Cable connecting receptacle |
| 2 | Box mounting receptacle |
| 4 | Jam nut receptacle |
| 6 | Straight plug |
| Self Locking/Quick disconnect (981) styles: | |
| 6 | Straight plug with self-locking coupling nut |
| 7 | Quick disconnect plug with lanyard |
| 8 | Quick disconnect plug without lanyard |

Step 3. Select a Service Class

| | |
|-----------|--|
| A | Aluminum shell, black anodized finish, fluid resistant insert |
| F | Aluminum shell, electroless nickel finish, fluid resistant insert |
| W | Aluminum shell, cadmium olive drab finish, fluid resistant insert |
| FS | Stainless steel shell, passivated, fluid resistant insert |
| KT | Firewall, steel shell, cadmium/olive drab finish, non-flammable hard dielectric and fluid resistant insert |
| KS | Firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert |

Step 4. Select a Shell Size & Insert Arrangement see pages 172 & 173

Shell Size & Insert Arrangements are on pages 172 & 173. First number represents Shell Size, second number is the Insert Arrangement.

Step 5. Select a Contact Type

| | |
|----------|------------|
| | Designates |
| P | Pin |
| S | Socket |

Step 6. Alternate Positions

“W”, “X”, “Y”, “Z” designate that insert is rotated in its shell from normal position. No letter required for normal (no rotation) position. See page 184 for description of alternate positions.

Step 7. Modification Number

Consult Amphenol, Sidney, NY for information. For strain reliefs use the following modification codes:

- (189) E-nut M85049/31 configuration
- (190) Straight strain relief M85049/52 configuration
- (191) 90° strain relief M85049/51 configuration

III
II
I
SJT
38999

Matrix 2
26482

Matrix
Pyle
83723 III

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

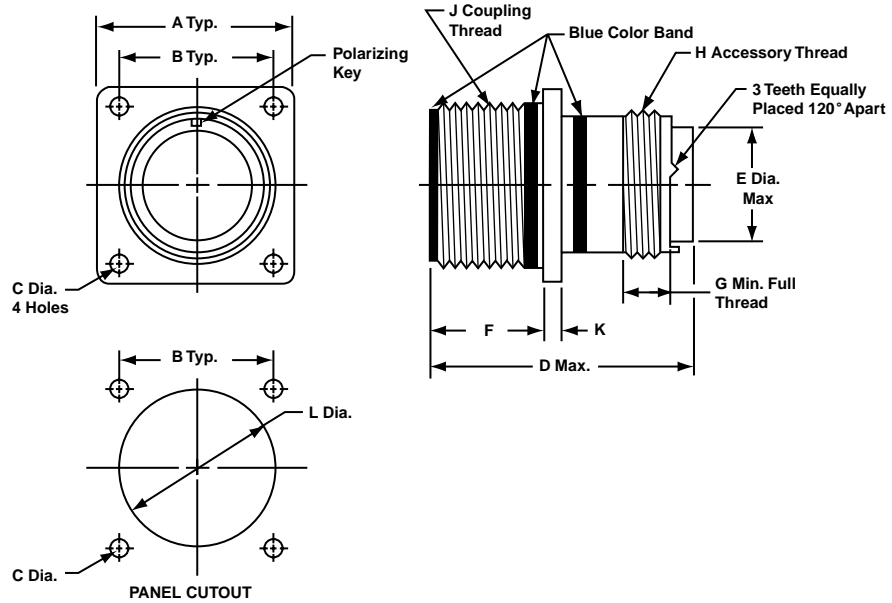
Fiber Optics

High Speed
Contacts

Options
Others

PART # Receptacle Shell, Flange Wall Mount, Threaded Coupling.
To complete, see how to order page 185

| MIL-DTL-5015 | Connector Type | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Rotation | Modification Number |
|-------------------|----------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|
| Military | MS | 3450 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 944 | 0 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | <i>xxx</i> |



| Shell Size* | A ±.031 | B | C Dia. +.010 - .005 | | D Max. | | E Dia. Max. | F | G Min. | H Thread Class 2A | J Thread Class 2A | K | L Dia. ±.010 |
|-------------|---------|-------|---------------------|---------|-----------------------|-----------------------|-------------|-----------|--------|-------------------|-------------------|------|--------------|
| | | | Class A, F, R, W | Class K | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | | | | |
| 8S | .875 | .594 | .120 | .150 | 2.031 | — | .305 | .593/.562 | .290 | .5000-20 UNEF | .5000-28 UNEF | .083 | .562 |
| 10S | 1.000 | .719 | .120 | .150 | 2.031 | — | .405 | .593/.562 | .290 | .6250-24 UNEF | .6250-24 UNEF | .083 | .688 |
| 10SL | 1.000 | .719 | .120 | .150 | 2.031 | — | .405 | .593/.562 | .290 | .6250-24 UNEF | .6250-24 UNEF | .083 | .688 |
| 12 | 1.094 | .812 | .120 | .150 | 2.125 | — | .549 | .781/.750 | .290 | .7500-20 UNEF | .7500-20 UNEF | .083 | .812 |
| 12S | 1.094 | .812 | .120 | .150 | 2.031 | — | .549 | .593/.562 | .290 | .7500-20 UNEF | .7500-20 UNEF | .083 | .812 |
| 14 | 1.188 | .906 | .120 | .150 | 2.125 | — | .665 | .781/.750 | .290 | .8750-20 UNEF | .8750-20 UNEF | .083 | .938 |
| 14S | 1.188 | .906 | .120 | .150 | 2.031 | — | .665 | .593/.562 | .290 | .8750-20 UNEF | .8750-20 UNEF | .083 | .938 |
| 16 | 1.281 | .969 | .120 | .150 | 2.125 | 2.500 | .790 | .781/.750 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF | .083 | 1.062 |
| 16S | 1.281 | .969 | .120 | .150 | 2.031 | — | .790 | .593/.562 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF | .083 | 1.062 |
| 18 | 1.375 | 1.062 | .120 | .177 | 2.125 | 2.500 | .869 | .781/.750 | .290 | 1.0625-18 UNEF | 1.1250-18 UNEF | .125 | 1.188 |
| 20 | 1.500 | 1.156 | .120 | .177 | 2.125 | 2.500 | .994 | .781/.750 | .290 | 1.1875-18 UNEF | 1.2500-18 UNEF | .125 | 1.312 |
| 22 | 1.625 | 1.250 | .120 | .177 | 2.125 | 2.500 | 1.119 | .781/.750 | .290 | 1.3125-18 UNEF | 1.3750-18 UNEF | .125 | 1.438 |
| 24 | 1.750 | 1.375 | .147 | .177 | 2.125 | 2.500 | 1.244 | .843/.812 | .290 | 1.4375-18 UNEF | 1.5000-18 UNEF | .125 | 1.562 |
| 28 | 2.000 | 1.562 | .147 | .177 | 2.125 | 2.500 | 1.465 | .843/.812 | .467 | 1.7500-18 UNS | 1.7500-18 UNS | .125 | 1.812 |
| 32 | 2.250 | 1.750 | .173 | .209 | 2.125 | 2.500 | 1.715 | .906/.875 | .467 | 2.0000-18 UNS | 2.0000-18 UNS | .125 | 2.062 |
| 36 | 2.500 | 1.938 | .173 | .209 | 2.125 | 2.500 | 1.930 | .906/.875 | .467 | 2.2500-16 UN | 2.2500-16 UN | .125 | 2.312 |
| 40 | 2.750 | 2.188 | .173 | .209 | 2.125 | 2.500 | 2.145 | .906/.875 | .467 | 2.5000-16 UN | 2.5000-16 UN | .125 | 2.562 |

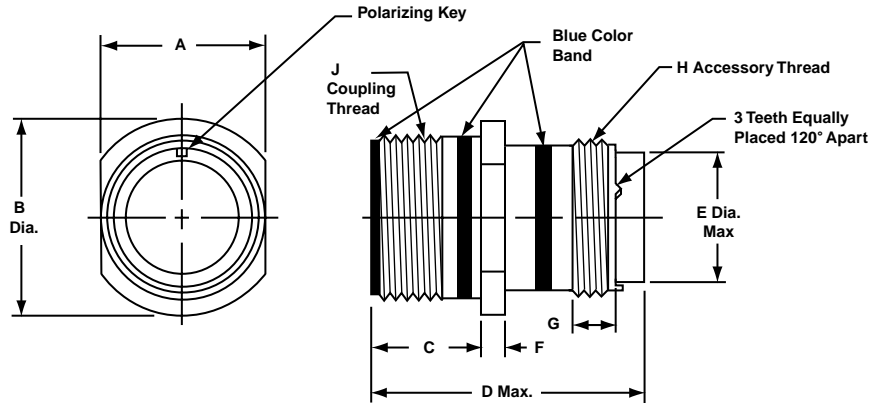
* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

38999 I II III
SJT
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

MS3451, MIL-DTL-5015 Crimp Rear Release Cable Connecting Receptacle

PART # Receptacle Shell, Cable Connecting, Threaded Coupling.
To complete, see how to order page 185

| MIL-DTL-5015 | Connector Type | Connector Style | Service Class | Shell Size— Insert Arrangement | Contact Type | Insert Rotation | Modification Number |
|-------------------|----------------|-----------------|---------------|-----------------------------------|--------------|-----------------|---------------------|
| Military | MS | 3451 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 944 | 1 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | <i>xxx</i> |



| Shell Size | A | B Dia. ±.031 | C | D Max. | | E Dia. Max. | F ±.015 | G Min. | H Thread Class 2A | J Thread Class 2A |
|------------|-------------|--------------|-----------|-----------------------|-----------------------|-------------|---------|--------|-------------------|-------------------|
| | | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | | |
| 8S | .504/.496 | .729 | .577/.562 | 2.031 | — | .305 | .083 | .290 | .5000-20 UNEF | .5000-28 UNEF |
| 10S | .629/.621 | .854 | .577/.562 | 2.031 | — | .405 | .083 | .290 | .6250-24 UNEF | .6250-24 UNEF |
| 10SL | .629/.621 | .854 | .577/.562 | 2.031 | — | .405 | .083 | .290 | .6250-24 UNEF | .6250-24 UNEF |
| 12 | .754/.746 | .974 | .765/.750 | 2.125 | — | .549 | .083 | .290 | .7500-20 UNEF | .7500-20 UNEF |
| 12S | .754/.746 | .974 | .577/.562 | 2.031 | — | .549 | .083 | .290 | .7500-20 UNEF | .7500-20 UNEF |
| 14 | .879/.871 | 1.099 | .765/.750 | 2.125 | — | .665 | .083 | .290 | .8750-20 UNEF | .8750-20 UNEF |
| 14S | .879/.871 | 1.099 | .577/.562 | 2.031 | — | .665 | .083 | .290 | .8750-20 UNEF | .8750-20 UNEF |
| 16 | 1.005/.996 | 1.224 | .765/.750 | 2.125 | 2.500 | .790 | .083 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF |
| 16S | 1.005/.996 | 1.224 | .577/.562 | 2.031 | — | .790 | .083 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF |
| 18 | 1.131/1.121 | 1.349 | .765/.750 | 2.125 | 2.500 | .869 | .125 | .290 | 1.0625-18 UNEF | 1.1250-18 UNEF |
| 20 | 1.256/1.246 | 1.474 | .765/.750 | 2.125 | 2.500 | .994 | .125 | .290 | 1.1875-18 UNEF | 1.2500-18 UNEF |
| 22 | 1.381/1.371 | 1.599 | .765/.750 | 2.125 | 2.500 | 1.119 | .125 | .290 | 1.3125-18 UNEF | 1.3750-18 UNEF |
| 24 | 1.506/1.496 | 1.715 | .827/.812 | 2.125 | 2.500 | 1.244 | .125 | .290 | 1.4375-18 UNEF | 1.5000-18 UNEF |
| 28 | 1.756/1.746 | 1.974 | .827/.812 | 2.125 | 2.500 | 1.465 | .125 | .467 | 1.7500-18 UNS | 1.7500-18 UNS |
| 32 | 2.007/1.996 | 2.224 | .890/.870 | 2.125 | 2.500 | 1.715 | .125 | .467 | 2.0000-18 UNS | 2.0000-18 UNS |
| 36 | 2.257/2.246 | 2.474 | .890/.870 | 2.125 | 2.500 | 1.930 | .125 | .467 | 2.2500-16 UN | 2.2500-16 UN |
| 40 | 2.511/2.456 | 2.724 | .890/.870 | 2.125 | 2.500 | 2.145 | .125 | .467 | 2.5000-16 UN | 2.5000-16 UN |

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

38999
SJT

26482
Matrix 2

83723 III
Matrix Pyle

5015
Crimp Rear Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

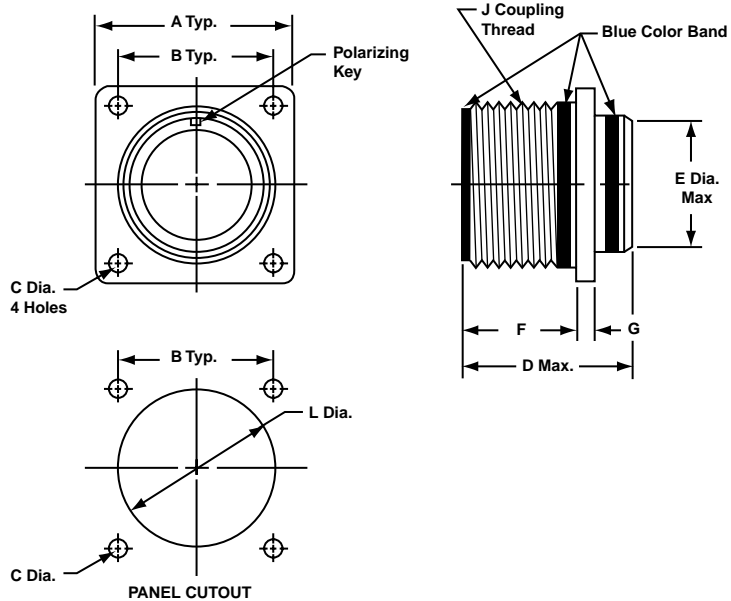
Fiber Optics

High Speed
Contacts

Options
Others

PART # Receptacle Shell, Flange Mount, Threaded Coupling.
To complete, see how to order page 185

| MIL-DTL-5015 | Connector Type | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Rotation | Modification Number |
|-------------------|----------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|
| Military | MS | 3452 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 944 | 2 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | <i>xxx</i> |



| Shell Size* | A ±.031 | B | C Dia. | D Max. | | E Dia. ±.016 | F | G ±.015 | J Thread Class 2A | L Dia. ±.010 |
|-------------|------------|-------|-----------|-----------------------------|-----------------------------|--------------------|-----------|------------|-------------------------|--------------------|
| | | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | | |
| 8S | .875 | .594 | .130/.115 | 1.662 | — | .500 | .578/.562 | .083 | .5000-28 UNEF | .562 |
| 10S | 1.000 | .719 | .130/.115 | 1.662 | — | .625 | .578/.562 | .083 | .6250-24 UNEF | .688 |
| 10SL | 1.000 | .719 | .130/.115 | 1.662 | — | .625 | .578/.562 | .083 | .6250-24 UNEF | .688 |
| 12 | 1.094 | .812 | .130/.115 | 1.662 | — | .750 | .765/.750 | .083 | .7500-20 UNEF | .812 |
| 12S | 1.094 | .812 | .130/.115 | 1.662 | — | .750 | .578/.562 | .083 | .7500-20 UNEF | .812 |
| 14 | 1.188 | .906 | .130/.115 | 1.662 | — | .875 | .765/.750 | .083 | .8750-20 UNEF | .938 |
| 14S | 1.188 | .906 | .130/.115 | 1.662 | — | .875 | .577/.562 | .083 | .8750-20 UNEF | .938 |
| 16 | 1.281 | .969 | .130/.115 | 1.662 | 1.937 | 1.000 | .765/.750 | .083 | 1.0000-20 UNEF | 1.062 |
| 16S | 1.281 | .969 | .130/.115 | 1.662 | — | 1.000 | .577/.562 | .083 | 1.0000-20 UNEF | 1.062 |
| 18 | 1.375 | 1.062 | .130/.115 | 1.662 | 1.937 | 1.062 | .765/.750 | .125 | 1.1250-18 UNEF | 1.188 |
| 20 | 1.500 | 1.156 | .130/.115 | 1.662 | 1.937 | 1.187 | .765/.750 | .125 | 1.2500-18 UNEF | 1.312 |
| 22 | 1.625 | 1.250 | .130/.115 | 1.662 | 1.937 | 1.312 | .765/.750 | .125 | 1.3750-18 UNEF | 1.438 |
| 24 | 1.750 | 1.375 | .157/.142 | 1.662 | 1.937 | 1.437 | .827/.812 | .125 | 1.5000-18 UNEF | 1.562 |
| 28 | 2.000 | 1.562 | .157/.142 | 1.662 | 1.937 | 1.750 | .827/.812 | .125 | 1.7500-18 UNS | 1.812 |
| 32 | 2.250 | 1.750 | .183/.168 | 1.662 | 1.937 | 2.000 | .988/.875 | .125 | 2.0000-18 UNS | 2.062 |
| 36 | 2.500 | 1.938 | .183/.168 | 1.662 | 1.937 | 2.250 | .988/.875 | .125 | 2.2500-16 UN | 2.312 |
| 40 | 2.750 | 2.188 | .183/.168 | 1.662 | 1.937 | 2.500 | .988/.875 | .125 | 2.5000-16 UN | 2.562 |

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

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

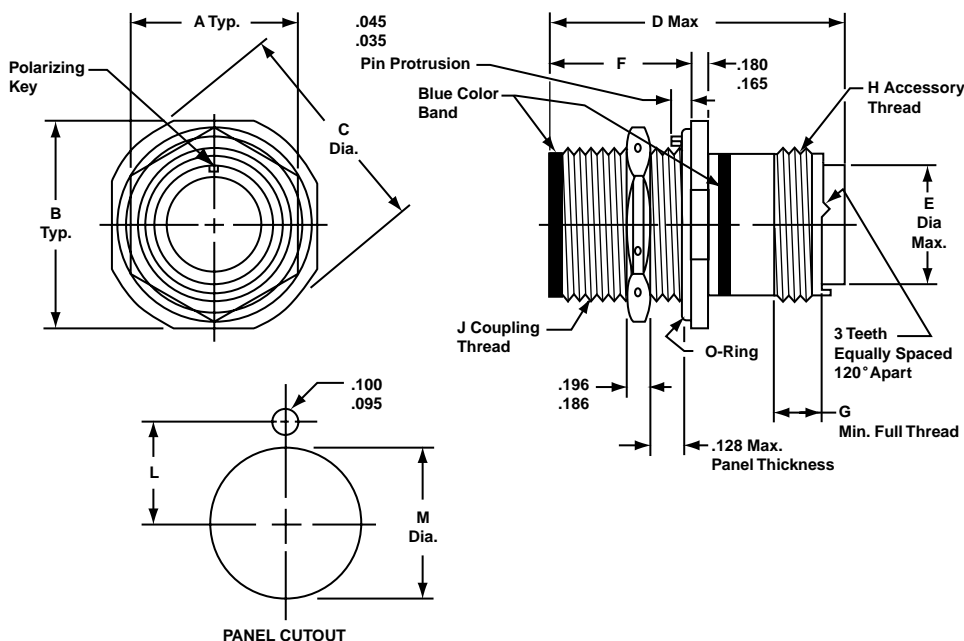
Options
Others

MS3454, MIL-DTL-5015 Crimp Rear Release Jam Nut Receptacle



PART # Receptacle Shell, Jam Nut Mount, Threaded Coupling To complete, see how to order page 185

| MIL-DTL-5015 | Connector Type | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Rotation | Modification Number |
|-------------------|----------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|
| Military | MS | 3454 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 944 | 4 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | <i>xxx</i> |



| Shell Size* | A ±.010 | B ±.005 | C Dia. ±.005 | D Max. | | E Dia. Max. | F ±.005 | G Min. | H Thread Class 2A | J Thread Class 2A | Panel Cutout Dimensions | |
|-------------|---------|---------|--------------|-----------------------|-----------------------|-------------|---------|--------|-------------------|-------------------|-------------------------|---------------------|
| | | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | | | L ±.005 | M Dia. +.015 - .000 |
| 8S | .687 | 1.187 | 1.272 | 2.031 | - | .305 | .720 | .290 | .5000-20 UNEF | .5000-28 UNEF | .323 | .505 |
| 10S | .812 | 1.312 | 1.397 | 2.031 | - | .405 | .720 | .290 | .6250-24 UNEF | .6250-24 UNEF | .385 | .630 |
| 10SL | .812 | 1.312 | 1.397 | 2.031 | - | .405 | .720 | .290 | .6250-24 UNEF | .6250-24 UNEF | .385 | .630 |
| 12 | .937 | 1.437 | 1.522 | 2.125 | - | .549 | .970 | .290 | .7500-20 UNEF | .7500-20 UNEF | .448 | .755 |
| 12S | .937 | 1.437 | 1.522 | 2.031 | - | .549 | .720 | .290 | .7500-20 UNEF | .7500-20 UNEF | .448 | .755 |
| 14 | 1.125 | 1.562 | 1.647 | 2.125 | - | .665 | .970 | .290 | .8750-20 UNEF | .8750-20 UNEF | .510 | .880 |
| 14S | 1.125 | 1.562 | 1.647 | 2.031 | - | .665 | .720 | .290 | .8750-20 UNEF | .8750-20 UNEF | .510 | .880 |
| 16 | 1.250 | 1.687 | 1.772 | 2.125 | 2.500 | .790 | .970 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF | .573 | 1.005 |
| 16S | 1.250 | 1.687 | 1.772 | 2.031 | - | .790 | .720 | .290 | 1.0000-20 UNEF | 1.0000-20 UNEF | .573 | 1.005 |
| 18 | 1.375 | 1.812 | 1.897 | 2.125 | 2.500 | .869 | .970 | .290 | 1.0625-18 UNEF | 1.1250-18 UNEF | .635 | 1.130 |
| 20 | 1.500 | 1.937 | 2.022 | 2.125 | 2.500 | .994 | .970 | .290 | 1.1875-18 UNEF | 1.2500-18 UNEF | .698 | 1.255 |
| 22 | 1.625 | 2.156 | 2.241 | 2.125 | 2.500 | 1.119 | .970 | .290 | 1.3125-18 UNEF | 1.3750-18 UNEF | .760 | 1.380 |
| 24 | 1.750 | 2.281 | 2.366 | 2.125 | 2.500 | 1.244 | .970 | .290 | 1.4375-18 UNEF | 1.5000-18 UNEF | .823 | 1.505 |
| 28 | 2.000 | 2.531 | 2.616 | 2.125 | 2.500 | 1.465 | .970 | .467 | 1.7500-18 UNS | 1.7500-18 UNS | .948 | 1.755 |
| 32 | 2.375 | 2.781 | 2.866 | 2.125 | 2.500 | 1.715 | .970 | .467 | 2.0000-18 UNS | 2.0000-18 UNS | 1.073 | 2.005 |
| 36 | 2.625 | 3.031 | 3.116 | 2.125 | 2.500 | 1.930 | .970 | .467 | 2.2500-16 UN | 2.2500-16 UN | 1.198 | 2.255 |
| 40 | 2.875 | 3.281 | 3.366 | 2.125 | 2.500 | 2.145 | .970 | .467 | 2.5000-16 UN | 2.5000-16 UN | 1.323 | 2.505 |

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

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

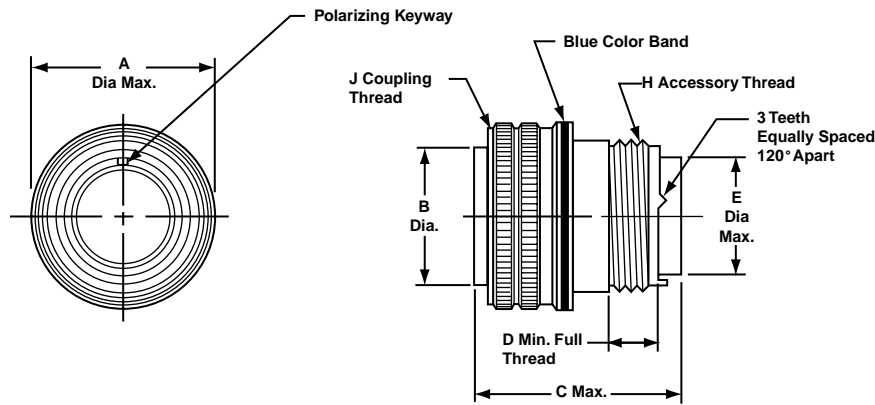
Fiber Optics

High Speed
Contacts

Options
Others

PART # Plug Shell, Threaded Coupling.
To complete, see how to order page 185

| MIL-DTL-5015 Connector Type | Shell Style | Service Class | Shell Size—Insert Arrangement | Contact Type | Alternate Rotation | Modification Number | |
|-----------------------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|------------|
| Military | MS | 3456 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 944 | 6 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | <i>xxx</i> |



| Shell Size* | A Dia. Max. | B Dia. ±.005 | C Max. | | D Min. | E Dia. Max. | H Thread Class 2A | J Thread Class 2B |
|-------------|-------------|--------------|-----------------------|-----------------------|--------|-------------|-------------------|-------------------|
| | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | |
| 8S | .844 | .360 | 2.031 | — | .290 | .305 | .5000-20 UNF | .5000-28 UNEF |
| 10S | .969 | .435 | 2.031 | — | .290 | .405 | .6250-24 UNF | .6250-24 UNEF |
| 10SL | .969 | .441** | 2.031 | — | .290 | .405 | .6250-24 UNF | .6250-24 UNEF |
| 12 | 1.062 | .550 | 2.125 | — | .290 | .549 | .7500-20 UNF | .7500-20 UNEF |
| 12S | 1.062 | .550 | 2.031 | — | .290 | .549 | .7500-20 UNF | .7500-20 UNEF |
| 14 | 1.156 | .670 | 2.125 | — | .290 | .665 | .8750-20 UNF | .8750-20 UNEF |
| 14S | 1.156 | .670 | 2.031 | — | .290 | .665 | .8750-20 UNF | .8750-20 UNEF |
| 16 | 1.250 | .800 | 2.125 | 2.500 | .290 | .790 | 1.0000-20 UNF | 1.0000-20 UNEF |
| 16S | 1.250 | .800 | 2.031 | — | .290 | .790 | 1.0000-20 UNF | 1.0000-20 UNEF |
| 18 | 1.344 | .925 | 2.125 | 2.500 | .290 | .869 | 1.0625-18 UNF | 1.1250-18 UNEF |
| 20 | 1.469 | 1.045 | 2.125 | 2.500 | .290 | .994 | 1.1875-18 UNF | 1.2500-18 UNEF |
| 22 | 1.594 | 1.170 | 2.125 | 2.500 | .290 | 1.119 | 1.3125-18 UNF | 1.3750-18 UNEF |
| 24 | 1.719 | 1.295 | 2.125 | 2.500 | .290 | 1.244 | 1.4375-18 UNF | 1.5000-18 UNEF |
| 28 | 1.969 | 1.515 | 2.125 | 2.500 | .467 | 1.465 | 1.7500-18 UNS | 1.7500-18 UNS |
| 32 | 2.219 | 1.765 | 2.125 | 2.500 | .467 | 1.715 | 2.0000-18 UNS | 2.0000-18 UNS |
| 36 | 2.469 | 1.975 | 2.125 | 2.500 | .467 | 1.930 | 2.2500-16 UN | 2.2500-16 UN |
| 40 | 2.719 | 2.225 | 2.125 | 2.500 | .467 | 2.145 | 2.5000-16 UN | 2.5000-16 UN |

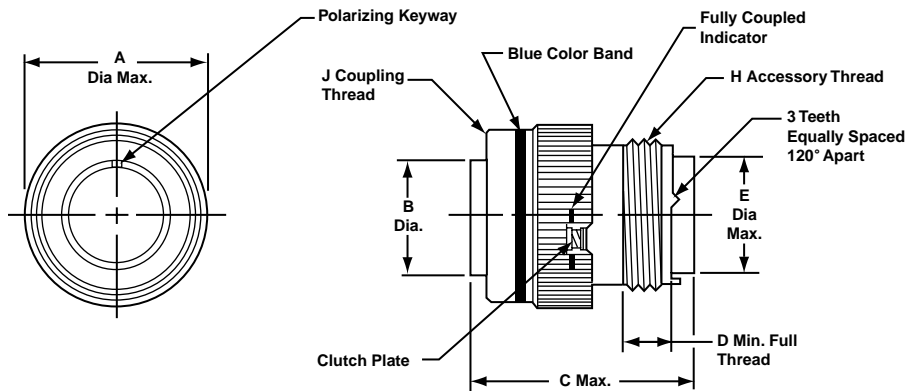
* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

** Tolerance on this dimension is +.000 –.006

MS3459, MIL-DTL-5015 Crimp Rear Release Straight Plug with Self-locking Coupling Nut

PART # Plug Shell, Self-Locking, Threaded Coupling To complete, see how to order page 185

| MIL-DTL-5015 | Connector Type | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Rotation | Modification Number |
|-------------------|----------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|
| Military | MS | 3459 | <i>L</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | NA |
| Commercial | 981 | 6 | <i>F</i> | <i>16S-8</i> | <i>P</i> | <i>W</i> | xxx |



| Shell Size* | A Dia. Max. | B Dia. ±.005 | C Max. | | D Min. | E Dia. Max. | H Thread Class 2A | J Thread Class 2B |
|-------------|-------------|--------------|-----------------------|-----------------------|--------|-------------|-------------------|-------------------|
| | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | |
| 8S | .963 | .360 | 1.510 | - | .290 | .305 | .5000-20 UNEF | .5000-28 UNEF |
| 10S | 1.088 | .435 | 1.510 | - | .290 | .405 | .6250-24 UNEF | .6250-24 UNEF |
| 10SL | 1.088 | .441** | 1.510 | - | .290 | .405 | .6250-24 UNEF | .6250-24 UNEF |
| 12 | 1.213 | .550 | 1.780 | - | .290 | .549 | .7500-20 UNEF | .7500-20 UNEF |
| 12S | 1.213 | .550 | 1.510 | - | .290 | .549 | .7500-20 UNEF | .7500-20 UNEF |
| 14 | 1.358 | .670 | 1.780 | - | .290 | .665 | .8750-20 UNEF | .8750-20 UNEF |
| 14S | 1.358 | .670 | 1.510 | - | .290 | .665 | .8750-20 UNEF | .8750-20 UNEF |
| 16 | 1.463 | .800 | 1.780 | 2.500 | .290 | .790 | 1.0000-20 UNEF | 1.0000-20 UNEF |
| 16S | 1.463 | .800 | 1.510 | - | .290 | .790 | 1.0000-20 UNEF | 1.0000-20 UNEF |
| 18 | 1.588 | .925 | 1.850 | 2.500 | .290 | .869 | 1.0625-18 UNEF | 1.1250-18 UNEF |
| 20 | 1.713 | 1.045 | 1.850 | 2.500 | .290 | .994 | 1.1875-18 UNEF | 1.2500-18 UNEF |
| 22 | 1.788 | 1.170 | 1.850 | 2.500 | .290 | 1.119 | 1.3125-18 UNEF | 1.3750-18 UNEF |
| 24 | 1.963 | 1.295 | 1.850 | 2.500 | .290 | 1.244 | 1.4375-18 UNEF | 1.5000-18 UNEF |
| 28 | 2.213 | 1.515 | 1.850 | 2.500 | .467 | 1.465 | 1.7500-18 UNS | 1.7500-18 UNS |
| 32 | 2.463 | 1.765 | 1.850 | 2.500 | .467 | 1.715 | 2.0000-18 UNS | 2.0000-18 UNS |
| 36 | 2.713 | 1.975 | 1.850 | 2.500 | .467 | 1.930 | 2.2500-16 UN | 2.2500-16 UN |
| 40 | 2.963 | 2.225 | 1.850 | 2.500 | .467 | 2.145 | 2.5000-16 UN | 2.5000-16 UN |

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.
** Tolerance on this dimension is +.000 -.006

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

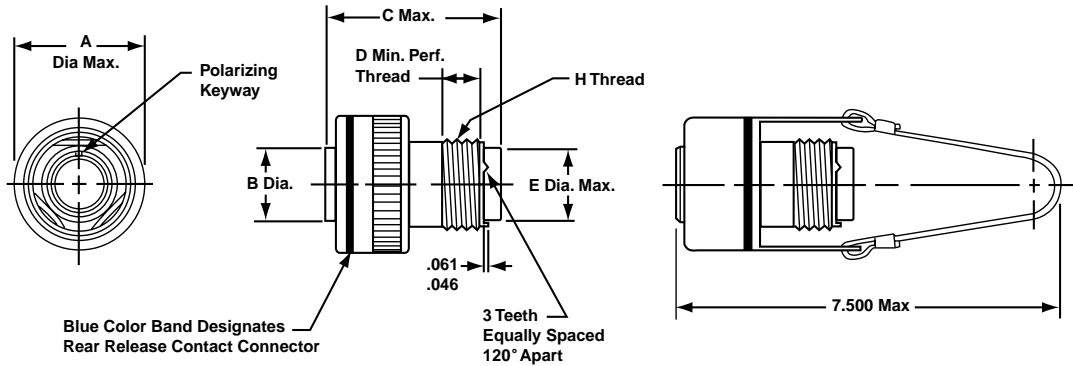
Fiber Optics

High Speed
Contacts

Options
Others

PART # Plug Shell, Quick Disconnect, Push-pull Coupling
To complete, see how to order page 185

| MIL-DTL-5015 Connector Type | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Rotation | Modification Number |
|-----------------------------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------|
| Commercial | 981 | 7 | L 16S-8 | P | W | xxx |
| Commercial | 981 | 8 | F 16S-8 | P | W | xxx |



9818 Connector

9817 Connector with Lanyard

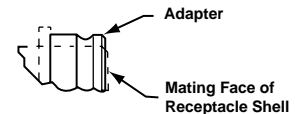
| Shell Size* | A Dia. Max. | B Dia. | C Max. | | D Min. | E Dia. Max. | H Thread Class 2A | Amphenol/Matrix Part Number for Adapter Ring |
|-------------|-------------|--------|-----------------------|-----------------------|--------|-------------|-------------------|--|
| | | | Size 16 & 12 Contacts | Size 8, 4, 0 Contacts | | | | |
| 8S | 1.087 | .360 | 2.031 | — | .290 | .305 | .5000-20 UNF | 2500-008-0X08 |
| 10S | 1.224 | .435 | 2.031 | — | .290 | .405 | .6250-24 UNEF | 2500-008-0X10 |
| 10SL | 1.224 | .441 | 2.031 | — | .290 | .405 | .6250-24 UNEF | 2500-008-0X10 |
| 12 | 1.355 | .550 | 2.125 | — | .290 | .549 | .7500-20 UNEF | 2500-008-0X12 |
| 12S | 1.355 | .550 | 2.031 | — | .290 | .549 | .7500-20 UNEF | 2500-008-0X13 |
| 14 | 1.482 | .670 | 2.125 | — | .290 | .665 | .8750-20 UNEF | 2500-008-0X14 |
| 14S | 1.482 | .670 | 2.031 | — | .290 | .665 | .8750-20 UNEF | 2500-008-0X15 |
| 16 | 1.609 | .800 | 2.125 | 2.500 | .290 | .790 | 1.0000-20 UNEF | 2500-008-0X16 |
| 16S | 1.609 | .800 | 2.031 | — | .290 | .790 | 1.0000-20 UNEF | 2500-008-0X17 |
| 18 | 1.817 | .925 | 2.125 | 2.500 | .290 | .869 | 1.0625-18 UNEF | 2500-008-0X18 |
| 20 | 1.942 | 1.045 | 2.125 | 2.500 | .290 | .994 | 1.1875-18 UNEF | 2500-008-0X20 |
| 22 | 2.075 | 1.170 | 2.125 | 2.500 | .290 | 1.119 | 1.3125-18 UNEF | 2500-008-0X22 |
| 24 | 2.203 | 1.295 | 2.125 | 2.500 | .290 | 1.244 | 1.4375-18 UNEF | 2500-008-0X24 |
| 28 | 2.516 | 1.515 | 2.125 | 2.500 | .467 | 1.465 | 1.7500-18 UNS | 2500-008-0X28 |
| 32 | 2.735 | 1.765 | 2.125 | 2.500 | .467 | 1.715 | 2.0000-18 UNS | 2500-008-0X32 |
| 36 | 3.015 | 1.975 | 2.125 | 2.500 | .467 | 1.930 | 2.2500-16 UN | 2500-008-0X36 |
| 40 | 3.306 | 2.225 | 2.125 | 2.500 | .467 | 2.145 | 2.5000-16 UN | 2500-008-0X40 |

* Consult Amphenol, Sidney, NY for availability of shell sizes 44 and 48.

Receptacle Adapter Ring

Required to mate the quick disconnect plug with receptacle. Not furnished with the quick disconnect plug and must be ordered separately.

Note: Use Locktite Material on the threads for a permanent installation to the shell.



How to Order Adapter Ring

Part Number

2500-008-0 X XX

Shell Size (varies from connector shell size designation, see last column of table at left)

Finish

- 0 - Electroless Nickel
- 1 - Black Anodize
- 2 - Cadmium/Olive Drab
- 3 - Stainless Steel, Passivated

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® Matrix 5015 Connector With RADSOK® Contacts



For High Power Applications

- Mil-spec qualified, environmental Matrix MIL-DTL-5015 connectors with improved sealing
- Completely environmentally sealed with contact seals, gaskets, wire seals and insert-to-shell seals
- Special design enhanced with RADSOK contacts in the plug instead of standard rear release crimp contacts
- All the shell styles and finishes of the Matrix 5015 family are available, including firewall styles and non-decoupling styles

RADSOK contacts provide high amperage capability with minimal voltage loss and low insertion forces.

The RADSOK contact has a hyperbolic, stamped grid configuration with the socket circular. As a male pin is inserted, axial members in the female socket deflect, enabling high current flow across the connection with minimal voltage loss.

See pages 419-421 for more information on RADSOK contacts.



RADSOK

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

MS/STANDARD CRIMP REAR RELEASE CONTACTS

| Contact Size | Wire Range | | Socket Contacts | | Pin Contacts | |
|--------------|------------|-----------------|----------------------|-----------------------------|----------------------|-----------------------------|
| | AWG | mm ² | Military Part Number | Amphenol/Matrix Part Number | Military Part Number | Amphenol/Matrix Part Number |
| | | | | | | |
| 16S* | 20-16 | 0.5-1.4 | M39029/30-217 | M5100-033-1601L | M39029/29-212 | M5000-029-0016L |
| 16 | 20-16 | 0.5-1.4 | M39029/30-218 | M5100-033-1602L | M39029/29-212 | M5000-029-0016L |
| 12 | 14-12 | 2-3 | M39029/30-219 | M5100-033-0012 | M39029/29-213 | M5000-029-0012 |
| 8 | 10-8† | 5-8.5 | M39029/30-220 | M5100-033-0008 | M39029/29-214 | M5000-029-0008 |
| 4 | 6-4† | 13-21 | M39029/30-221 | M5100-033-0004 | M39029/29-215 | M5000-029-0004 |
| 0 | 2-0† | 34-60 | M39029/30-222 | M5100-033-0000 | M39029/29-216 | M5000-029-0000 |

* Shorter wire barrel

Note: For information on thermocouple contacts, consult Amphenol, Sidney, NY.

† Use MS3348 bushing kit to accommodate smaller wire.

CONTACT CURRENT RATING AND RETENTION

| Contact Size** | Current Rating | | Contact Retention | |
|----------------|----------------|-------------------------|-------------------|-------|
| | Amperes Max. | Voltage Drop Millivolts | Axial Load | |
| | | | lb. | N |
| 16 | 13 | 50 | 25 | 111.2 |
| 12 | 23 | 50 | 30 | 133.4 |
| 8 | 46 | 25 | 50 | 222.4 |
| 4 | 80 | 14 | 60 | 266.9 |
| 0 | 150 | 12 | 75 | 333.6 |

** Organize individual circuits to maintain heat rise within operating temperature requirements.

SEALING PLUGS

| Contact Size | Sealing Plugs | |
|--------------|----------------------|-----------------------------|
| | Military Part Number | Amphenol/Matrix Part Number |
| 16S | MS27488-16-1 | 10-405996-161 |
| 16 | MS27488-16-1 | 10-405996-161 |
| 12 | MS27488-12-1 | 10-405996-121 |
| 8 | MS27488-8-1 | 10-405996-081 |
| 4 | MS27488-4-1 | 10-405996-041 |
| 0 | MS27488-0-1 | 10-405996-001 |

CRIMPING TOOLS

| Contact Size | Wire Range | | Finished Wire Dia. Range | | Color Code | Crimping Tool Part Number | Turret or Positioner Part Number |
|--------------|------------|-----------------|--------------------------|------------|-------------|---------------------------|----------------------------------|
| | AWG | mm ² | Inch | mm | | | |
| 16S | 20-16 | 0.5-1.4 | .053-.103 | 1.34-2.62 | Red/White | M22520/1-01 | M22520/1-02 |
| 16 | 20-16 | 0.5-1.4 | .053-.103 | 1.34-2.62 | Blue/White | M22520/1-01 | M22520/1-02 |
| 12 | 14-12 | 2-3 | .085-.158 | 2.15-4.01 | Yell./White | M22520/1-01 | M22520/1-02 |
| 8 | 10-8 | 5-8.5 | .132-.255 | 3.35-6.48 | White/Red | M22520/23-01 | M22520/23-02 |
| 4 | 6-4 | 13-21 | .237-.370 | 6.01-9.40 | White/Blue | M22520/23-01 | M22520/23-04 |
| 0 | 2-0 | 34-60 | .360-.550 | 9.14-13.97 | White/Yell. | M22520/23-01 | M22520/23-05 |

INSERTION/REMOVAL TOOLS

| Contact Size | Color Code | Military Part Number | Amphenol/Matrix Part Number |
|--------------|--------------|----------------------|-----------------------------|
| 16 | Blue/White | M81969/14-03 | 10-538988-016 |
| 12 | Yellow/White | M81969/14-04 | 10-538988-012 |
| 8 | Red | M81969/14-06 | 6500-018-0008 |
| 4 | Blue | M81969/14-07 | 6500-018-0004 |
| 0 | Yellow | M81969/14-08 | 6500-018-0000 |

Amphenol installation instructions, L-2106, gives information on insertion, removal and crimping of contacts for Matrix MIL-DTL-5015 connectors.

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

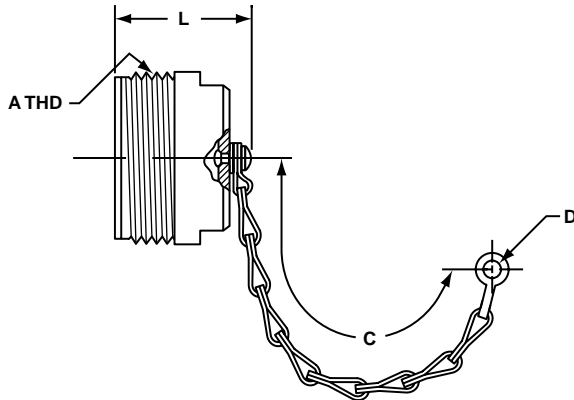
Options
Others

PLUG PROTECTION CAP 10-329393-XX*



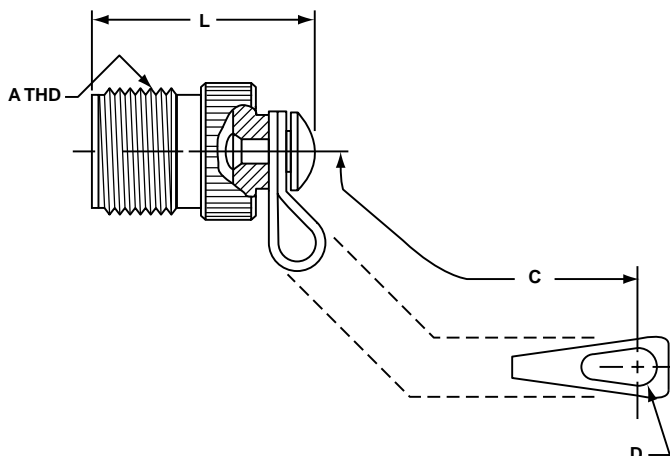
| Assembly Number | A Thread Class 2A | B Dia. +.010 - .000 | C Approx. | L Max. |
|-----------------|-------------------|---------------------|-----------|--------|
| 10-329393-10 | .625-24UNEF | .641 | 3.5 | 1.312 |
| 10-329393-11 | .625-24UNEF | .641 | 3.5 | 1.312 |
| 10-329393-12 | .750-20UNEF | .766 | 3.5 | 1.500 |
| 10-329393-14 | .875-20UNEF | .891 | 3.5 | 1.500 |
| 10-329393-16 | 1.000-20UNEF | 1.016 | 3.5 | 1.500 |
| 10-329393-18 | 1.125-18UNEF | 1.141 | 3.5 | 1.500 |
| 10-329393-20 | 1.250-18UNEF | 1.266 | 4.0 | 1.500 |
| 10-329393-22 | 1.375-18UNEF | 1.391 | 4.0 | 1.500 |
| 10-329393-24 | 1.500-18UNEF | 1.641 | 4.5 | 1.500 |
| 10-329393-28 | 1.750-18UNS | 1.891 | 4.5 | 1.500 |
| 10-329393-32 | 2.000-18UNS | 2.078 | 5.0 | 1.500 |
| 10-329393-36 | 2.250-16UN | 2.328 | 5.0 | 1.500 |
| 10-329393-40 | 2.500-16UN | 2.641 | 5.0 | 1.500 |
| 10-329393-44 | 2.750-16UN | 2.891 | 6.0 | 1.500 |

PLUG PROTECTION CAP 10-229125-XX*



| Assembly Number | A Thread Class 2A | C Approx. | D Ref. | L Max. |
|-----------------|-------------------|-----------|--------|--------|
| 10-229125-10 | .625-24NEF | 3.0 | .140 | 1.233 |
| 10-229125-12 | .750-20UNEF | 3.5 | .140 | 1.421 |
| 10-229125-14 | .875-20UNEF | 3.5 | .140 | 1.421 |
| 10-229125-16 | 1.000-20UNEF | 3.5 | .140 | 1.421 |
| 10-229125-18 | 1.125-18NEF | 3.5 | .140 | 1.421 |
| 10-229125-20 | 1.250-18NEF | 3.5 | .193 | 1.421 |
| 10-229125-22 | 1.375-18NEF | 3.5 | .193 | 1.421 |
| 10-229125-24 | 1.500-18NEF | 4.5 | .193 | 1.421 |
| 10-229125-28 | 1.750-18NS | 4.5 | .193 | 1.421 |
| 10-229125-32 | 2.000-18NS | 5.0 | .193 | 1.421 |
| 10-229125-36 | 2.250-16UN | 5.0 | .193 | 1.421 |
| 10-229125-40 | 2.500-16UN | 5.0 | .193 | 1.421 |

PLUG PROTECTION CAP MS25042-XXDA*



| MS Number | A Thread Class 2A | B Dia. +.010 - .005 | C Approx. | L Max. |
|--------------|-------------------|---------------------|-----------|--------|
| MS25042-8DA | .500-28UNEF | .156 | 4.00 | .969 |
| MS25042-10DA | .625-24UNEF | .156 | 4.00 | .969 |
| MS25042-12DA | .750-20UNEF | .156 | 4.50 | 1.156 |
| MS25042-14DA | .875-20UNEF | .156 | 4.50 | 1.156 |
| MS25042-16DA | 1.000-20UNEF | .156 | 4.50 | 1.156 |
| MS25042-18DA | 1.125-18UNEF | .156 | 4.50 | 1.156 |
| MS25042-20DA | 1.250-18UNEF | .187 | 5.00 | 1.156 |
| MS25042-22DA | 1.375-18UNEF | .187 | 5.00 | 1.156 |
| MS25042-24DA | 1.500-18UNEF | .187 | 5.50 | 1.156 |
| MS25042-28DA | 1.750-18UNS | .187 | 7.75 | 1.156 |
| MS25042-32DA | 2.000-18UNS | .218 | 7.75 | 1.156 |
| MS25042-36DA | 2.250-16UN | .218 | 7.75 | 1.156 |
| MS25042-40DA | 2.500-16UN | .218 | 7.75 | 1.156 |

* Protective caps are illustrated with sash chains and are available with beaded chains or without chains. Optional terminations are also available. Consult Amphenol, Sidney, NY when ordering.

III
II
I
SJT
38999

Matrix 2
26482

Matrix
Pyle
83723 III

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

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

| Assembly Number | A Thread Class 2B | B Dia. Min. | C Approx. | D Dia. Max. | L Max. |
|-----------------|-------------------|-------------|-----------|-------------|--------|
| 10-329394-10 | .625-24UNEF | .641 | 3.5 | .875 | .793 |
| 10-329394-12 | .750-20UNEF | .766 | 3.5 | 1.000 | .793 |
| 10-329394-14 | .875-20UNEF | .891 | 3.5 | 1.125 | .793 |
| 10-329394-16 | 1.000-20UNEF | 1.016 | 3.5 | 1.250 | .793 |
| 10-329394-18 | 1.125-18UNEF | 1.141 | 3.5 | 1.375 | 1.024 |
| 10-329394-20 | 1.250-18UNEF | 1.266 | 4.0 | 1.500 | 1.024 |
| 10-329394-22 | 1.375-18UNEF | 1.391 | 4.0 | 1.625 | 1.024 |
| 10-329394-24 | 1.500-18UNEF | 1.641 | 4.5 | 1.750 | 1.024 |
| 10-329394-28 | 1.750-18UNS | 1.891 | 4.5 | 2.000 | 1.024 |
| 10-329394-32 | 2.000-18UNS | 2.078 | 5.0 | 2.250 | 1.024 |
| 10-329394-36 | 2.250-16UN | 2.328 | 5.0 | 2.500 | 1.024 |
| 10-329394-40 | 2.500-16UN | 2.641 | 5.0 | 2.656 | 1.024 |
| 10-329394-44 | 2.750-16UN | 2.891 | 6.0 | 2.938 | 1.024 |

RECEPTACLE PROTECTION CAP 10-329394-XX*



| Assembly Number | A Thread Class 2B | B Ref. | C Approx. | D Dia. Max. | L Max. |
|-----------------|-------------------|--------|-----------|-------------|--------|
| 10-422905-103 | .625-24UNEF | .140 | 3.0 | .875 | .812 |
| 10-422905-123 | .750-20UNEF | .140 | 3.5 | 1.000 | .812 |
| 10-422905-143 | .875-20UNEF | .140 | 3.5 | 1.125 | .812 |
| 10-422905-163 | 1.000-20UNEF | .140 | 3.5 | 1.250 | .812 |
| 10-422905-183 | 1.125-18UNEF | .193 | 3.5 | 1.375 | 1.031 |
| 10-422905-203 | 1.250-18UNEF | .193 | 4.0 | 1.500 | 1.031 |
| 10-422905-223 | 1.375-18UNEF | .193 | 4.0 | 1.625 | 1.031 |
| 10-422905-243 | 1.500-18UNEF | .193 | 4.5 | 1.750 | 1.031 |
| 10-422905-283 | 1.750-18UNS | .193 | 4.5 | 2.000 | 1.031 |
| 10-422905-323 | 2.000-18UNS | .193 | 5.0 | 2.250 | 1.031 |
| 10-422905-363 | 2.250-16UN | .193 | 5.0 | 2.500 | 1.031 |
| 10-422905-403 | 2.500-16UN | .193 | 5.0 | 2.656 | 1.031 |

RECEPTACLE PROTECTION CAP 10-422905-XXX*



| MS Number | A Thread Class 2B | B +.010 - .005 | C Approx. | D Dia. Max. | L Max. |
|--------------|-------------------|----------------|-----------|-------------|--------|
| MS25043-8DA | .500-28UNEF | .140 | 4.00 | .688 | .750 |
| MS25043-10DA | .625-24UNEF | .140 | 4.00 | .815 | .750 |
| MS25043-12DA | .750-20UNEF | .140 | 4.50 | 1.000 | .750 |
| MS25043-14DA | .875-20UNEF | .140 | 4.50 | 1.125 | .750 |
| MS25043-16DA | 1.000-20UNEF | .140 | 4.50 | 1.188 | .750 |
| MS25043-18DA | 1.125-18UNEF | .140 | 4.50 | 1.344 | .750 |
| MS25043-20DA | 1.250-18UNEF | .140 | 5.00 | 1.469 | .750 |
| MS25043-22DA | 1.375-18UNEF | .140 | 5.00 | 1.594 | .750 |
| MS25043-24DA | 1.500-18UNEF | .171 | 5.50 | 1.719 | .750 |
| MS25043-28DA | 1.750-18UNS | .171 | 7.75 | 1.969 | .812 |
| MS25043-32DA | 2.000-18UNS | .187 | 7.75 | 2.219 | .812 |
| MS25043-36DA | 2.250-16UN | .187 | 7.75 | 2.469 | .812 |
| MS25043-40DA | 2.500-16UN | .187 | 7.75 | 2.719 | .812 |

RECEPTACLE PROTECTION CAP MS25043-XXDA*



* Protective caps are illustrated with sash chains and are available with beaded chains or without chains. Optional terminations are also available. Consult Amphenol, Sidney, NY when ordering.

10-70500 RECEPTACLE DUST CAP for external threads



| MS Shell Size | Order Number | A Dia. Nominal Thread | C Dia. ±.031 | L ¹ ±.062 |
|---------------|--------------|-----------------------|--------------|----------------------|
| 8S | 10-70500-8 | .500 | .750 | .500 |
| 10S | 10-70500-10 | .625 | .875 | .500 |
| 10SL | 10-70500-10 | .625 | .875 | .500 |
| 12S | 10-70500-12 | .750 | 1.000 | .500 |
| 12 | 10-70500-12 | .750 | 1.000 | .500 |
| 14S | 10-70500-14 | .875 | 1.125 | .500 |
| 14 | 10-70500-14 | .875 | 1.125 | .500 |
| 16S | 10-70500-16 | 1.000 | 1.250 | .500 |
| 16 | 10-70500-16 | 1.000 | 1.250 | .500 |
| 18 | 10-70500-18 | 1.125 | 1.375 | .562 |
| 20 | 10-70500-20 | 1.250 | 1.500 | .562 |
| 22 | 10-70500-22 | 1.375 | 1.625 | .562 |
| 24 | 10-70500-24 | 1.500 | 1.750 | .562 |
| 28 | 10-70500-28 | 1.750 | 1.938 | .562 |
| 32 | 10-70500-32 | 2.000 | 2.250 | .562 |
| 36 | 10-70500-36 | 2.250 | 2.500 | .625 |
| 40 | 10-70500-40 | 2.500 | 2.750 | .625 |

10-70506 PLUG DUST CAP for internal threads



| MS Shell Size | Order Number | B Dia. Min. | L ² ±.125 |
|---------------|--------------|-------------|----------------------|
| 8S | 10-70506-8S | .469 | .625 |
| 10S | 10-70506-10S | .587 | .625 |
| 10SL | 10-70506-10S | .587 | .625 |
| 12S | 10-70506-12 | .704 | .625 |
| 12 | 10-70506-12 | .704 | .625 |
| 14S | 10-70506-14 | .828 | .625 |
| 14 | 10-70506-14 | .828 | .625 |
| 16S | 10-70506-16 | .953 | .625 |
| 16 | 10-70506-16 | .953 | .625 |
| 18 | 10-70506-18 | 1.072 | .625 |
| 20 | 10-70506-20 | 1.197 | .625 |
| 22 | 10-70506-22 | 1.322 | .625 |
| 24 | 10-70506-24 | 1.447 | .625 |
| 28 | 10-70506-28 | 1.697 | .625 |
| 32 | 10-70506-32 | 1.947 | .625 |
| 36 | 10-70506-36 | 2.190 | .625 |
| 40 | 10-70506-40 | 2.440 | .625 |

III
II
I
SJT
38999

Matrix 2
26482

Matrix Pyle
83723 III

Release Matrix
5015
Crimp Rear

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others