

# Amphenol

MIL-C-26482

Series 2 Connectors



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**Amphenol**



## Introduction

This catalog covers the Amphenol MIL-C-26482, Series 2 Connectors. These connectors are bayonet coupling type, and they feature crimp contacts that are rear insertable and rear releasable. They can be ordered through Amphenol, by military or equivalent proprietary part numbers.

The connectors covered in this catalog broaden the miniature cylindrical family offered by Amphenol, so that now users have the broadest range of product available to them.

Should more information be required concerning the connectors covered in this publication, or if special application needs arise, please contact factory :

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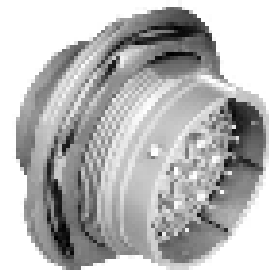
## Amphenol Miniature Cylindrical MIL-C-26482, Series 2 Connectors



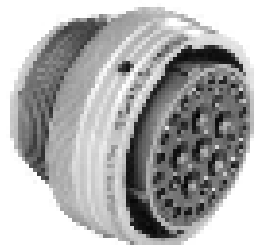
MS3470  
wall mounting receptacle  
with narrow flange



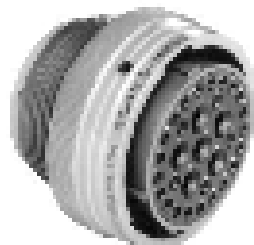
MS3472  
wall mounting receptacle  
with wide flange



MS3471  
cable connecting receptacle



MS3474  
jam nut receptacle



MS3476  
straight plug  
MS3475  
plug with RFI grounding  
fingers

**Amphenol broadens their Miniature Cylindrical Family of Connectors with the addition of the product line of MIL-C-26482, Series 2 connectors.**

This series provides a bayonet coupling connector with crimp rear insertable, rear releasable contacts.

### DESIGN CHARACTERISTICS

- Medium size, environmentally resistant connector
- Recommended operating voltage to 1000 VAC (RMS) at sea level
- Quick positive coupling assured by 3 point bayonet coupling system
- Visual confirmation of complete coupling
- Eliminates mismatching by the use of five key/keyway design
- Insertion and removal of contacts from the rear of the connectors assures no damage to the front that might affect the sealing characteristics
- Utilizes same standard qualified rear release type plastic tool for contact insertion and removal
- Contacts are qualified to MIL-C-39029 requirements - BIN coded (three colour bands), and are crimped with standard crimp tools per MIL-C-22520
- Grommets are constructed of tear-resistant elastomer and experience no degradation when exposed to a broad range of fluids
- Sealing over a range of wire diameters is assured by a triple webbed grommet at the rear of the connector
- Closed entry socket side of the insert is designed with a lead-in chamfer and a hard face that will accept a pin contact bent within pre-established limits
- Elastomer interfacial seal on the pin side has raised barriers around each pin which displace into the socket chamfer when mated, providing a positive moisture seal

### CUSTOMER OPTIONS

- Shell styles within this family include:

Wall mount with either a narrow or a wide flange, jam nut single hole mount, and cable connecting receptacles, along with standard plugs or plugs with RFI grounding fingers, in shell sizes 8 to 24

- MS and Proprietary versions available
- Accommodation of contact sizes 20, 16 and 12
- 34 insert arrangement patterns available, accommodating from a minimum of 3 to a maximum of 55 circuits
- Alternate positioning available
- Various finishes are available (for information on non-cadmium zinc cobalt plating, consult factory)

## Amphenol Miniature Cylindrical MIL-C- 26482, Series 2 Connectors

class descriptions, performance specifications

### CLASS DESCRIPTIONS

| Military<br>MIL-C-26482, Series 2 | Description                                                              |
|-----------------------------------|--------------------------------------------------------------------------|
| Class L                           | Aluminum shell, electroless nickel finish, fluid resistant               |
| Class E                           | Inactive, superceded by Class L*                                         |
| Class R                           | Inactive, superceded by Class L*                                         |
| Class A                           | Aluminum shell, black non-conductive anodized finish, fluid resistant    |
| -                                 | Proprietary class G - Stainless steel shell, passivated, fluid resistant |
| Class W                           | Aluminum shell, olive drab cadmium plated, corrosion/fluid resistant     |

\* Ref. MIL-C-26482

### PERFORMANCE SPECIFICATIONS

#### SERVICE RATINGS\*\*

| Service<br>Rating | Recommended<br>Operating AC Voltage<br>at Sea Level | Test Voltage AC (RMS), 60 cps |            |            |             |
|-------------------|-----------------------------------------------------|-------------------------------|------------|------------|-------------|
|                   |                                                     | Sea Level                     | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I                 | 600                                                 | 1,500                         | 500        | 375        | 200         |
| II                | 1,000                                               | 2,300                         | 750        | 500        | 200         |

\*\* Service rating is comparable to MS rating A. Miniature connectors rated Service Rating I will provide a minimum flashover voltage at sea level of 2000 volts AC (RMS). Service rating II is comparable to MS Service Rating D, and will provide a minimum flashover voltage of 2,800 volts AC (RMS) at sea level.

Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands, as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

#### OPERATING TEMPERATURE RANGE

-65° C (-85°F) to 200° C (392°F)

#### ENVIRONMENTAL SEAL

Wired, mated connectors with the specified accessory attached will meet the altitude immersion test specified in MIL-C-26482.

#### DURABILITY

Minimum of 500 mating cycles.

#### SHOCK AND VIBRATION REQUIREMENTS

When tested as follows, the connector shall sustain no physical damage, or electrical discontinuity exceeding one microsecond.

#### SHOCK

Pulse of an approximate half sine wave of 300g magnitude with duration of 3 milliseconds applied in 3 axes

#### VIBRATION

Sixteen hours of random vibration having a range of 50 to 2,000 Hz with a 41.7G peak level

## Miniature Cylindrical MIL-C-26482, Series 2

insert arrangements, insert alternate positioning

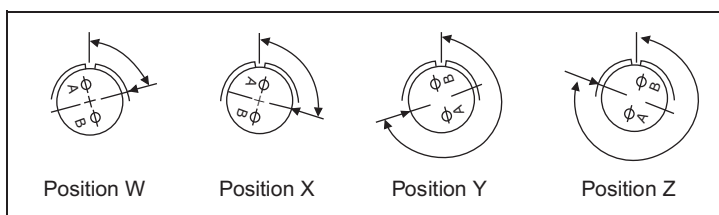
### INSERT ARRANGEMENTS

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |    |    |
|--------------------|----------------|----------------|--------------|----|----|
|                    |                |                | 12           | 16 | 20 |
| 8-33               | I              | 3              |              |    | 3  |
| 8-98               | I              | 3              |              |    | 3  |
| 10-6               | I              | 6              |              |    | 6  |
| 12-3               | II             | 3              |              | 3  |    |
| 12-8               | I              | 8              |              |    | 8  |
| 12-10              | I              | 10             |              |    | 10 |
| 14-4               | I              | 4              | 4            |    |    |
| 14-5               | I              | 5              |              | 5  |    |
| 14-9               | I              | 9              | 4            |    | 5  |
| 14-12              | I              | 12             |              | 4  | 8  |
| 14-15              | I              | 15             |              | 1  | 14 |
| 14-18              | I              | 18             |              |    | 18 |
| 14-19              | I              | 19             |              |    | 19 |
| 16-8               | II             | 8              |              | 8  |    |
| 16-23              | I              | 23             |              | 1  | 22 |
| 16-26              | I              | 26             |              |    | 26 |
| 18-8               | I              | 8              | 8            |    |    |
| 18-11              | II             | 11             |              | 11 |    |
| 18-30              | I              | 30             |              | 1  | 29 |
| 18-32              | I              | 32             |              |    | 32 |
| 20-16              | II             | 16             |              | 16 |    |
| 20-24              | I              | 24             |              |    | 24 |
| 20-39              | I              | 39             |              | 2  | 37 |
| 20-41              | I              | 41             |              |    | 41 |
| 22-12              | I              | 12             | 12           |    |    |
| 22-19              | I              | 19             | 19           |    |    |
| 22-21              | II             | 21             |              | 21 |    |
| 22-32              | I              | 32             |              |    | 32 |
| 22-41              | I              | 41             |              | 14 | 27 |
| 22-55              | I              | 55             |              |    | 55 |
| 22-95              | I              | 32             | 6            |    | 26 |
| 24-19              | II             | 19             | 19           |    |    |
| 24-31              | I              | 31             |              | 31 |    |
| 24-61              | I              | 61             |              |    | 61 |

### INSERT ALTERNATE POSITIONING

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 chart below.

As shown in the diagram, 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.



View looking into front face of pin insert or rear of socket insert.

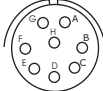
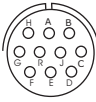
| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 8-33               | 90      | -   | -   | -   |
| 8-98               | -       | -   | -   | -   |
| 10-6               | 90      | -   | -   | -   |
| 12-3               | -       | -   | 180 | -   |
| 12-8               | 90      | 112 | 203 | 292 |
| 12-10              | 60      | 155 | 270 | 295 |
| 14-4               | 45      | -   | -   | -   |
| 14-5               | 40      | 92  | 184 | 273 |
| 14-9               | 15      | 90  | 180 | 270 |
| 14-12              | 43      | 90  | -   | -   |
| 14-15              | 17      | 110 | 155 | 234 |
| 14-18              | 15      | 90  | 180 | 270 |
| 14-19              | 30      | 165 | 315 | -   |
| 16-8               | 54      | 152 | 180 | 331 |
| 16-23              | 158     | 270 | -   | -   |
| 16-26              | 60      | -   | 275 | 338 |
| 18-8               | 180     | -   | -   | -   |
| 18-11              | 62      | 119 | 241 | 340 |
| 18-30              | 18      | 193 | 285 | 350 |
| 18-32              | 85      | 138 | 222 | 265 |
| 20-16              | 238     | 318 | 333 | 347 |
| 20-24              | 70      | 145 | 215 | 290 |
| 20-39              | 63      | 144 | 252 | 333 |
| 20-41              | 45      | 126 | 225 | -   |
| 22-12              | -       | -   | -   | -   |
| 22-19              | 15      | 90  | 225 | 308 |
| 22-21              | 16      | 135 | 175 | 349 |
| 22-32              | 72      | 145 | 215 | 288 |
| 22-41              | 39      | 135 | 264 | -   |
| 22-55              | 30      | 142 | 226 | 314 |
| 22-95              | 26      | 180 | 266 | -   |
| 24-19              | 30      | 165 | 315 | -   |
| 24-31              | 90      | 225 | 255 | -   |
| 24-61              | 90      | 180 | 270 | 324 |

Miniature Cylindrical MIL-C-26482, Series 2

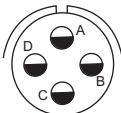
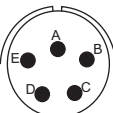
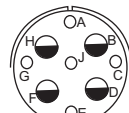
| Contact Legend |                                                                                     |                                                                                     |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Symbol         |  |  |  |
| Contact size   | 20                                                                                  | 16                                                                                  | 12                                                                                  |

insert arrangements

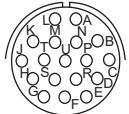
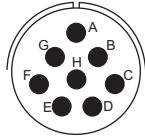
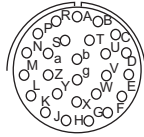
front face of pin insert or rear face of socket insert illustrated

|                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |
| Insert Arrangement | 8-33                                                                              | 8-98                                                                              | 10-06                                                                             | 12-03                                                                              | *12-08                                                                              | 12-10                                                                               |
| Service Rating     | I                                                                                 | I                                                                                 | I                                                                                 | II                                                                                 | I                                                                                   | I                                                                                   |
| Number of Contacts | 3                                                                                 | 3                                                                                 | 6                                                                                 | 3                                                                                  | 8                                                                                   | 10                                                                                  |
| Contact Size       | 20                                                                                | 20                                                                                | 20                                                                                | 16                                                                                 | 20                                                                                  | 20                                                                                  |

|                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |
| Insert Arrangement | *14-04                                                                             | 14-05                                                                              | *14-09                                                                             | 14-12                                                                                | 14-15                                                                                |
| Service Rating     | I                                                                                  | II                                                                                 | I                                                                                  | I                                                                                    | I                                                                                    |
| Number of Contacts | 4                                                                                  | 5                                                                                  | 5 4                                                                                | 8 4                                                                                  | 14 1                                                                                 |
| Contact Size       | 12                                                                                 | 16                                                                                 | 20 12                                                                              | 20 16                                                                                | 20 16                                                                                |

|                    |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |
| Insert Arrangement | *14-18                                                                              | 14-19                                                                               | *16-08                                                                              | *16-23                                                                                | 16-26                                                                                 |
| Service Rating     | I                                                                                   | I                                                                                   | II                                                                                  | I                                                                                     | I                                                                                     |
| Number of Contacts | 18                                                                                  | 19                                                                                  | 8                                                                                   | 22 1                                                                                  | 26                                                                                    |
| Contact Size       | 20                                                                                  | 20                                                                                  | 16                                                                                  | 20 16                                                                                 | 20                                                                                    |

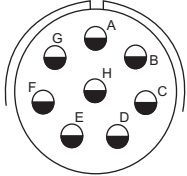
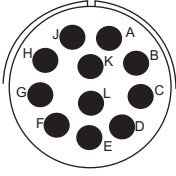
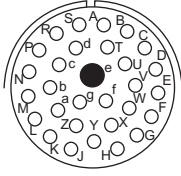
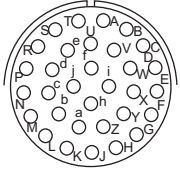
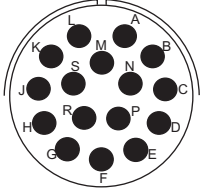
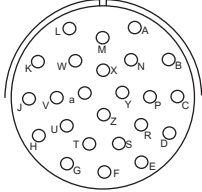
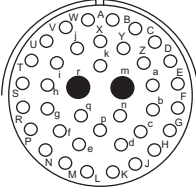
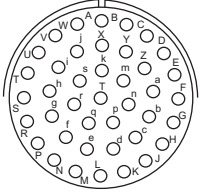
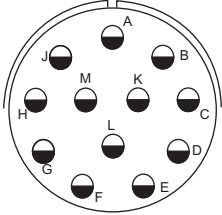
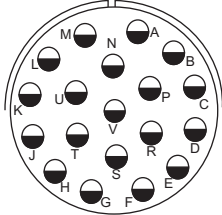
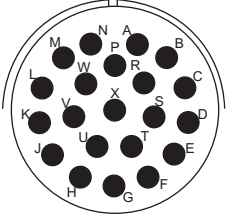
\*Available on request. Please contact factory.

Miniature Cylindrical MIL-C-26482, Series 2

| Contact Legend |                                                                                     |                                                                                     |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Symbol         |  |  |  |
| Contact size   | 20                                                                                  | 16                                                                                  | 12                                                                                  |

insert arrangements

front face of pin insert or rear face of socket insert illustrated

|                    |                                                                                     |                                                                                      |                                                                                       |                                                                                      |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |    |     |    |   |
| Insert Arrangement | *18-08                                                                              | *18-11                                                                               | *18-30                                                                                | 18-32                                                                                |
| Service Rating     | I                                                                                   | II                                                                                   | I                                                                                     | I                                                                                    |
| Number of Contacts | 8                                                                                   | 11                                                                                   | 29 1                                                                                  | 32                                                                                   |
| Contact Size       | 12                                                                                  | 16                                                                                   | 20 16                                                                                 | 20                                                                                   |
|                    |   |    |   |  |
| Insert Arrangement | *20-16                                                                              | *20-24                                                                               | *20-39                                                                                | 20-41                                                                                |
| Service Rating     | II                                                                                  | I                                                                                    | I                                                                                     | I                                                                                    |
| Number of Contacts | 16                                                                                  | 24                                                                                   | 37 2                                                                                  | 41                                                                                   |
| Contact Size       | 16                                                                                  | 20                                                                                   | 20 16                                                                                 | 20                                                                                   |
|                    |  |  |  |                                                                                      |
| Insert Arrangement | *22-12                                                                              | *22-19                                                                               | *22-21                                                                                |                                                                                      |
| Service Rating     | I                                                                                   | I                                                                                    | II                                                                                    |                                                                                      |
| Number of Contacts | 12                                                                                  | 19                                                                                   | 21                                                                                    |                                                                                      |
| Contact Size       | 12                                                                                  | 12                                                                                   | 16                                                                                    |                                                                                      |

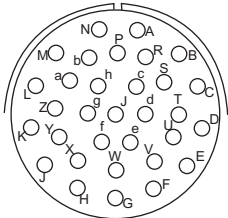
\*Available on request. Please contact factory.

Miniature Cylindrical MIL-C-26482, Series 2

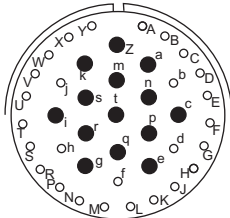
| Contact Legend |                                                                                     |                                                                                     |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Symbol         |  |  |  |
| Contact size   | 20                                                                                  | 16                                                                                  | 12                                                                                  |

insert arrangements

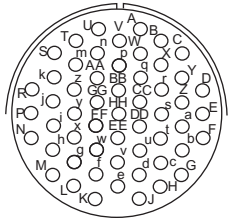
front face of pin insert or rear face of socket insert illustrated



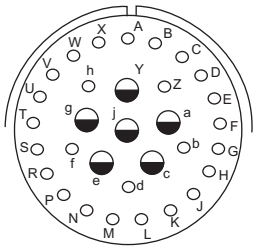
|                    |        |
|--------------------|--------|
| Insert Arrangement | *22-32 |
| Service Rating     | I      |
| Number of Contacts | 32     |
| Contact Size       | 20     |



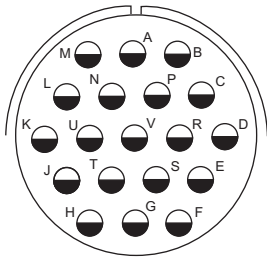
|                    |        |
|--------------------|--------|
| Insert Arrangement | *22-41 |
| Service Rating     | I      |
| Number of Contacts | 27 14  |
| Contact Size       | 20 16  |



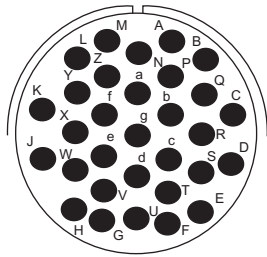
|                    |       |
|--------------------|-------|
| Insert Arrangement | 22-55 |
| Service Rating     | I     |
| Number of Contacts | 55    |
| Contact Size       | 20    |



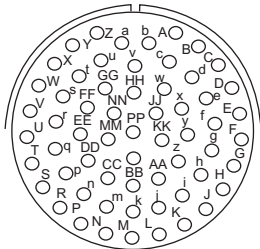
|                    |        |
|--------------------|--------|
| Insert Arrangement | *22-95 |
| Service Rating     | I      |
| Number of Contacts | 26 6   |
| Contact Size       | 20 12  |



|                    |        |
|--------------------|--------|
| Insert Arrangement | *24-19 |
| Service Rating     | II     |
| Number of Contacts | 19     |
| Contact Size       | 12     |



|                    |       |
|--------------------|-------|
| Insert Arrangement | 24-31 |
| Service Rating     | I     |
| Number of Contacts | 31    |
| Contact Size       | 16    |



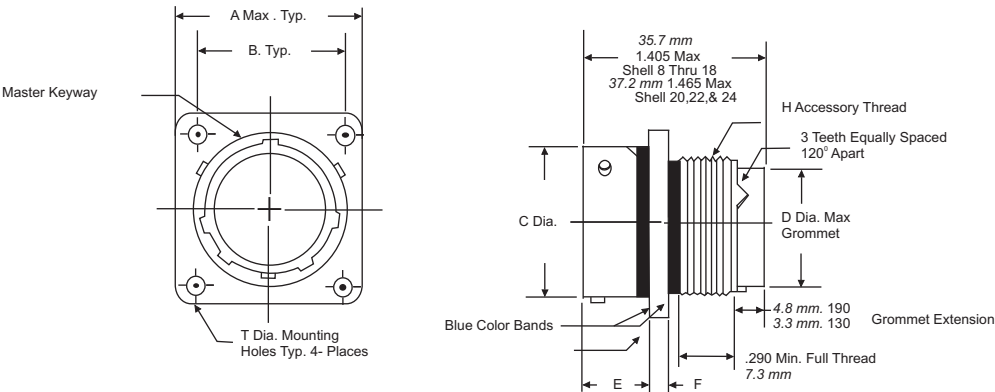
|                    |       |
|--------------------|-------|
| Insert Arrangement | 24-61 |
| Service Rating     | I     |
| Number of Contacts | 61    |
| Contact Size       | 20    |

\*Available on request. Please contact factory.

Miniature Cylindrical MIL-C-26482, Series 2 MS3470

wall mounting receptacle with narrow flange

Receptacle Shell, Wall Mount with Narrow Flange,  
Bayonet Coupling  
Military No. MS3470



To complete order number see ordering information, page 14.  
Inches

| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F ±.016 | H Accessory Thread Class 2A | T ±.005 |
|------------|--------|---------|--------------|-------------|-----------|---------|-----------------------------|---------|
| 8          | .828   | .594    | .471         | .305        | .462/.431 | .062    | .5000-20 UNF                | .120    |
| 10         | .954   | .719    | .588         | .405        | .462/.431 | .062    | .6250-24 UNEF               | .120    |
| 12         | 1.047  | .812    | .748         | .531        | .462/.431 | .062    | .7500-20 UNEF               | .120    |
| 14         | 1.141  | .906    | .873         | .665        | .462/.431 | .062    | .8750-20 UNEF               | .120    |
| 16         | 1.234  | .969    | .998         | .790        | .462/.431 | .062    | 1.0000-20 UNEF              | .120    |
| 18         | 1.328  | 1.062   | 1.123        | .869        | .462/.431 | .062    | 1.0625-18 UNEF              | .120    |
| 20         | 1.453  | 1.156   | 1.248        | .994        | .587/.556 | 0.94    | 1.1875-18 UNEF              | .120    |
| 22         | 1.578  | 1.250   | 1.373        | 1.119       | .587/.556 | 0.94    | 1.3125-18 UNEF              | .120    |
| 24         | 1.703  | 1.375   | 1.498        | 1.244       | .620/.589 | 0.94    | 1.4375-18 UNEF              | .147    |

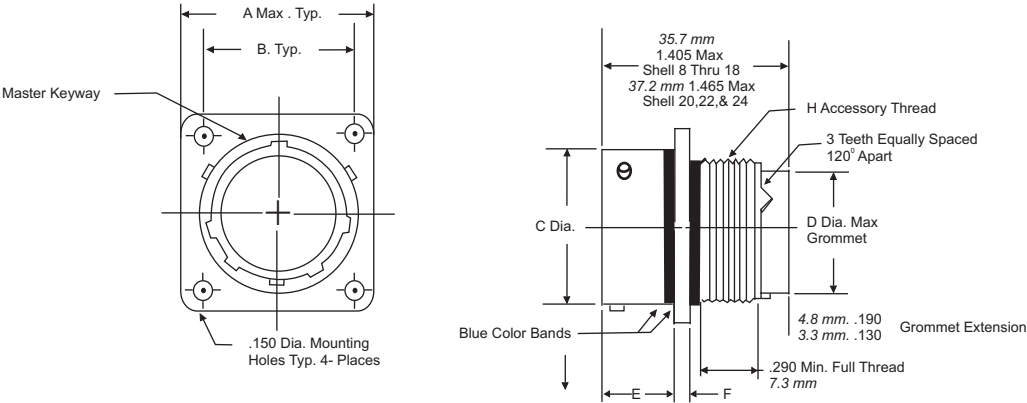
Millimeters

| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F ±.016 | H Accessory Thread Class 2A | T ±.005 |
|------------|--------|---------|--------------|-------------|-----------|---------|-----------------------------|---------|
| 8          | 21.0   | 15.0    | 12.0         | 07.7        | 11.7/10.9 | 1.6     | .5000-20 UNF                | 3.0     |
| 10         | 24.2   | 18.3    | 15.0         | 10.3        | 11.7/10.9 | 1.6     | .6250-24 UNEF               | 3.0     |
| 12         | 26.6   | 20.6    | 19.0         | 13.5        | 11.7/10.9 | 1.6     | .7500-20 UNEF               | 3.0     |
| 14         | 29.0   | 23.0    | 22.1         | 16.9        | 11.7/10.9 | 1.6     | .8750-20 UNEF               | 3.0     |
| 16         | 31.3   | 24.6    | 25.3         | 20.1        | 11.7/10.9 | 1.6     | 1.0000-20 UNEF              | 3.0     |
| 18         | 33.7   | 27.0    | 28.5         | 22.1        | 11.7/10.9 | 1.6     | 1.0625-18 UNEF              | 3.0     |
| 20         | 37.0   | 29.4    | 31.5         | 25.2        | 14.9/14.1 | 2.4     | 1.1875-18 UNEF              | 3.0     |
| 22         | 40.0   | 31.7    | 34.9         | 28.4        | 14.9/14.1 | 2.4     | 1.3125-18 UNEF              | 3.0     |
| 24         | 43.2   | 35.0    | 38.0         | 31.6        | 15.7/14.9 | 2.4     | 1.4375-18 UNEF              | 3.7     |

Miniature Cylindrical MIL-C-26482, Series 2 MS3472

wall mounting receptacle with wide flange

Receptacle Shell, Wall Mount with Wide Flange,  
Bayonet Coupling  
Military No. Ms3472



To complete order number see ordering information, page 14.

| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F ±.016 | H Thread Class 2A |
|------------|--------|---------|--------------|-------------|-----------|---------|-------------------|
| 8          | 1.065  | .734    | .471         | .305        | .493/.462 | .062    | .5000-20 UNF      |
| 10         | 1.141  | .812    | .588         | .405        | .493/.462 | .062    | .6250-24 UNEF     |
| 12         | 1.266  | .938    | .748         | .531        | .493/.462 | .062    | .7500-20 UNEF     |
| 14         | 1.360  | 1.031   | .873         | .665        | .493/.462 | .062    | .8750-20 UNEF     |
| 16         | 1.453  | 1.125   | .998         | .790        | .493/.462 | .062    | 1.0000-20 UNEF    |
| 18         | 1.532  | 1.203   | 1.123        | .869        | .493/.462 | .062    | 1.0625-18 UNEF    |
| 20         | 1.688  | 1.297   | 1.248        | .994        | .587/.556 | 0.94    | 1.1875-18 UNEF    |
| 22         | 1.766  | 1.375   | 1.373        | 1.119       | .587/.556 | 0.94    | 1.3125-18 UNEF    |
| 24         | 1.891  | 1.500   | 1.498        | 1.244       | .620/.589 | 0.94    | 1.4375-18 UNEF    |

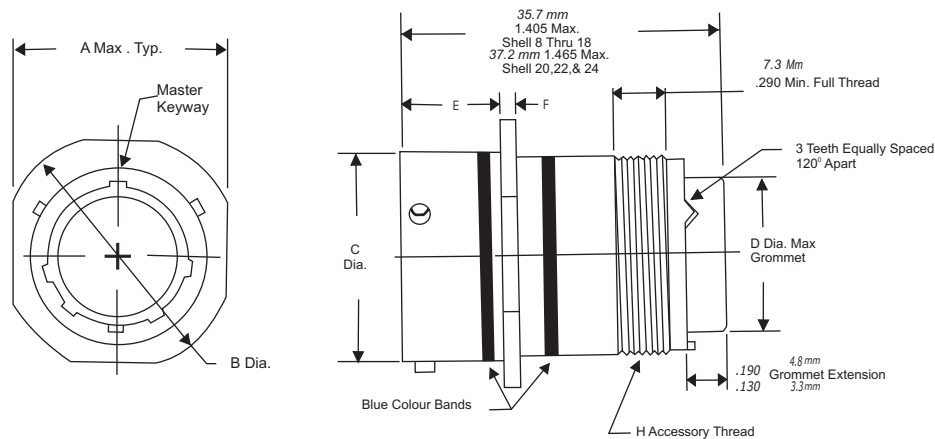
Millimeters

| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F ±.016 | H Thread Class 2A |
|------------|--------|---------|--------------|-------------|-----------|---------|-------------------|
| 8          | 27.1   | 18.6    | 11.9         | 7.7         | 11.7/10.9 | 1.5     | .50000-20 UNF     |
| 10         | 29.0   | 20.6    | 14.9         | 10.3        | 11.7/10.9 | 1.5     | .6250-24 UNEF     |
| 12         | 32.1   | 23.8    | 19.0         | 13.5        | 11.7/10.9 | 1.5     | .7500-20 UNEF     |
| 14         | 34.5   | 26.1    | 22.1         | 16.9        | 11.7/10.9 | 1.5     | .8750-20 UNEF     |
| 16         | 36.9   | 28.6    | 25.3         | 20.0        | 11.7/10.9 | 1.5     | 1.0000-20 UNEF    |
| 18         | 38.9   | 30.5    | 28.5         | 22.0        | 11.7/10.9 | 1.5     | 1.0625-18 UNEF    |
| 20         | 42.9   | 32.9    | 31.7         | 25.3        | 14.9/14.1 | 2.3     | 1.1875-18 UNEF    |
| 22         | 44.8   | 34.9    | 34.8         | 28.4        | 14.9/14.1 | 2.3     | 1.3125-18 UNEF    |
| 24         | 48.0   | 38.1    | 38.0         | 31.6        | 15.7/14.9 | 2.3     | 1.4375-18 UNEF    |

Miniature Cylindrical MIL-C-26482, Series 2 MS3471

cable connecting receptacle

Receptacle Shell, Cable Connecting,  
Bayonet Coupling  
Military No. MS3471



To complete order number see ordering information, page 14.

| Shell Size | A Max. | B Dia. ±.020 | C Dia. ±.003 | D Dia. Max. | E         | F ±.016 | H Thread Class 2A |
|------------|--------|--------------|--------------|-------------|-----------|---------|-------------------|
| 8          | .828   | .938         | .471         | .305        | .462/.431 | .062    | .5000-20 UNF      |
| 10         | .954   | 1.062        | .588         | .405        | .462/.431 | .062    | .6250-24 UNEF     |
| 12         | 1.04 7 | 1.156        | .748         | .531        | .462/.431 | .062    | .7500-20 UNEF     |
| 14         | 1.141  | 1.250        | .873         | .665        | .462/.431 | .062    | .8750-20 UNEF     |
| 16         | 1.234  | 1.344        | .998         | .790        | .462/.431 | .062    | 1.0000-20 UNEF    |
| 18         | 1.328  | 1.438        | 1.123        | .869        | .462/.431 | .062    | 1.0625-18 UNEF    |
| 20         | 1.453  | 1.562        | 1.248        | .994        | .587/.556 | 0.94    | 1.1875-18 UNEF    |
| 22         | 1.578  | 1.688        | 1.373        | 1.119       | .587/.556 | 0.94    | 1.3125-18 UNEF    |
| 24         | 1.703  | 1.812        | 1.498        | 1.244       | .620/.589 | 0.94    | 1.4375-18 UNEF    |

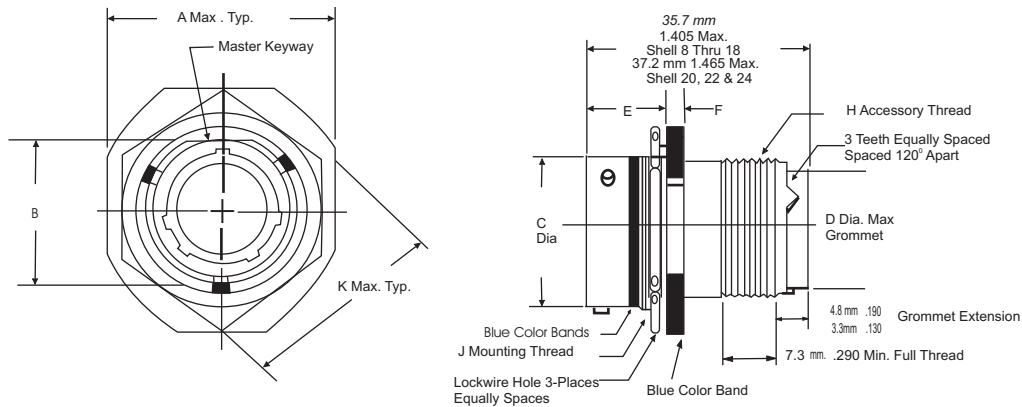
Millimeters.

| Shell Size | A Max. | B Dia. ±.020 | C Dia. ±.003 | D Dia. Max. | E          | F ±.016 | H Thread Class 2A |
|------------|--------|--------------|--------------|-------------|------------|---------|-------------------|
| 8          | 21.0   | 23.8         | 12.0         | 7.7         | 11.7/10.91 | 1.6     | .5000-20 UNF      |
| 10         | 24.2   | 27.0         | 14.9         | 10.2        | 11.7/10.9  | 1.6     | .6250-24 UNEF     |
| 12         | 26.6   | 29.3         | 18.8         | 13.5        | 11.7/10.9  | 1.6     | .7500-20 UNEF     |
| 14         | 29.0   | 31.7         | 22.1         | 16.9        | 11.7/10.9  | 1.6     | .8750-20 UNEF     |
| 16         | 31.3   | 34.1         | 25.3         | 20.0        | 11.7/10.91 | 1.6     | 1.0000-20 UNEF    |
| 18         | 33.7   | 36.5         | 28.5         | 22.1        | 11.7/10.9  | 1.6     | 1.0625-18 UNEF    |
| 20         | 36.9   | 39.7         | 31.7         | 25.2        | 14.9/14.1  | 2.4     | 1.1875-18 UNEF    |
| 22         | 40.0   | 42.9         | 34.9         | 28.42       | 14.9/14.1  | 2.4     | 1.3125-18 UNEF    |
| 24         | 43.2   | 46.0         | 38.0         | 31.6        | 15.7/14.9  | 2.4     | 1.4375-18 UNEF    |

Miniature Cylindrical MIL-C-26482, Series 2 MS3474

jam nut receptacle

Receptacle Shell, Jam Nut Mount,  
Bayonet Coupling  
Military No. MS3474



To complete order number see ordering information, page 14.

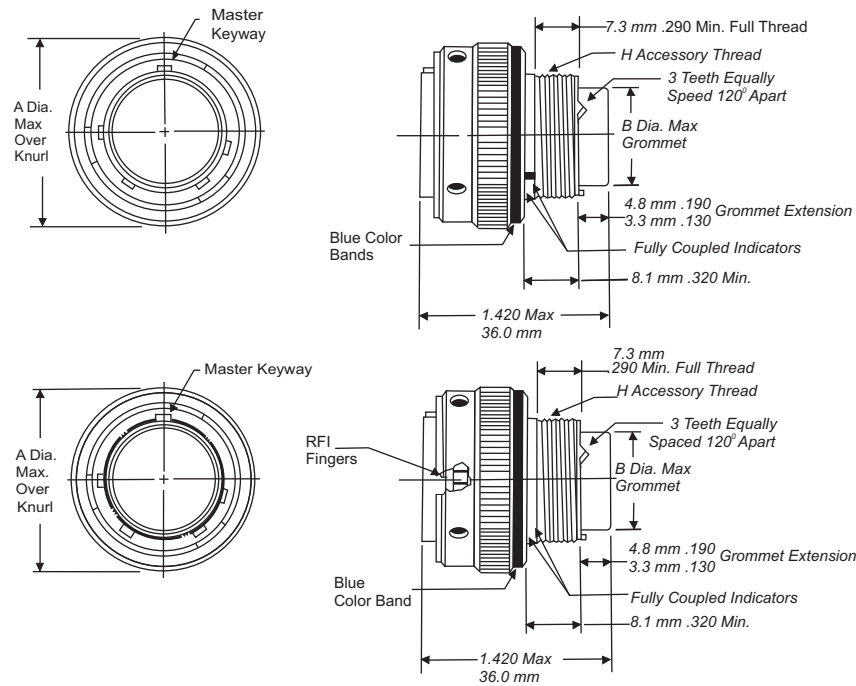
| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F         | H Accessory Thread Class 2A | J Mounting Thread Class 2A | K Max. |
|------------|--------|---------|--------------|-------------|-----------|-----------|-----------------------------|----------------------------|--------|
| 8          | .954   | .525    | .471         | .305        | .707/.658 | .113/.086 | .5000-20 UNF                | .5625-24 UNEF              | .767   |
| 10         | 1.078  | .650    | .588         | .405        | .707/.658 | .113/.086 | .6250-24 UNEF               | .6875-24 UNEF              | .892   |
| 12         | 1.266  | .813    | .748         | .531        | .707/.658 | .113/.086 | .7500-20 UNEF               | .8750-20 UNEF              | 1.079  |
| 14         | 1.391  | .937    | .873         | .665        | .707/.658 | .113/.086 | .8750-20 UNEF               | 1.0000-20 UNEF             | 1.205  |
| 16         | 1.516  | 1.061   | .998         | .790        | .707/.658 | .113/.086 | 1.0000-20 UNEF              | 1.1250-18 UNEF             | 1.329  |
| 18         | 1.641  | 1.186   | 1.123        | .869        | .707/.658 | .113/.086 | 1.0625-18 UNEF              | 1.2500-18 UNEF             | 1.455  |
| 20         | 1.828  | 1.311   | 1.248        | .994        | .772/.721 | .148/.096 | 1.1875-18 UNEF              | 1.3750-18 UNEF             | 1.579  |
| 22         | 1.954  | 1.436   | 1.373        | 1.119       | .772/.721 | .148/.096 | 1.3125-18 UNEF              | 1.5000-18 UNEF             | 1.705  |
| 24         | 2.078  | 1.561   | 1.498        | 1.244       | .772/.721 | .148/.096 | 1.4375-18 UNEF              | 1.6250-18 UNEF             | 1.829  |

Millimeters

| Shell Size | A Max. | B ±.005 | C Dia. ±.003 | D Dia. Max. | E         | F       | H Accessory Thread Class 2A | J Mounting Thread Class 2A | K Max. |
|------------|--------|---------|--------------|-------------|-----------|---------|-----------------------------|----------------------------|--------|
| 8          | 24.2   | 13.3    | 12.0         | 7.7         | 17.9/17.7 | 2.8/2.1 | .5000-20 UNF                | .5625-24 UNEF              | 19.5   |
| 10         | 27.4   | 16.5    | 15.0         | 10.3        | 17.9/17.7 | 2.8/2.1 | .6250-24 UNEF               | .6875-24 UNEF              | 22.6   |
| 12         | 32.1   | 20.6    | 19.0         | 13.4        | 17.9/17.7 | 2.8/2.1 | .7500-20 UNEF               | .8750-20 UNEF              | 27.4   |
| 14         | 35.3   | 23.8    | 22.2         | 16.9        | 17.9/17.7 | 2.8/2.1 | .8750-20 UNEF               | 1.0000-20 UNEF             | 30.6   |
| 16         | 38.5   | 27.0    | 25.3         | 20.0        | 17.9/17.7 | 2.8/2.1 | 1.0000-20 UNEF              | 1.1250-18 UNEF             | 33.7   |
| 18         | 41.7   | 30.1    | 28.5         | 22.1        | 17.9/17.7 | 2.8/2.1 | 1.0625-18 UNEF              | 1.2500-18 UNEF             | 37.0   |
| 20         | 46.4   | 33.3    | 31.7         | 25.2        | 19.6/18.3 | 3.7/2.4 | 1.1875-18 UNEF              | 1.3750-18 UNEF             | 40.1   |
| 22         | 49.6   | 36.5    | 34.9         | 28.4        | 19.6/18.3 | 3.7/2.4 | 1.3125-18 UNEF              | 1.5000-18 UNEF             | 43.3   |
| 24         | 52.7   | 39.6    | 38.0         | 31.6        | 19.6/18.3 | 3.7/2.4 | 1.4375-18 UNEF              | 1.6250-18 UNEF             | 46.4   |

Miniature Cylindrical MIL-C-26482, Series 2  
MS3476 straight plug

MS3475 straight plug with RFI grounding fingers



Plug Shell,  
Bayonet Coupling  
Military No. MS3476

Plug Shell, RFI Grounding,  
Bayonet Coupling  
Military No. MS3475  
Amphenol No. MB18

To complete order number see ordering information, page 14.

| Shell Size | A Dia. Max. | B Dia. Max. | H Accessory Thread Class 2A |
|------------|-------------|-------------|-----------------------------|
| 8          | .782        | .305        | .5000-20 UNF                |
| 10         | .926        | .405        | .6250-24 UNEF               |
| 12         | 1.043       | .531        | .7500-20 UNEF               |
| 14         | 1.183       | .665        | .8750-20 UNEF               |
| 16         | 1.305       | .790        | 1.0000-20 UNEF              |
| 18         | 1.391       | .869        | 1.0625-18 UNEF              |
| 20         | 1.531       | .994        | 1.1875-18 UNEF              |
| 22         | 1.656       | 1.119       | 1.3125-18 UNEF              |
| 24         | 1.777       | 1.244       | 1.4375-18 UNEF              |

Millimeters

| Shell Size | A Dia. Max. | B Dia. Max. | H Accessory Thread Class 2A |
|------------|-------------|-------------|-----------------------------|
| 8          | 19.8        | 3.1         | .5000-20 UNF                |
| 10         | 23.5        | 10.2        | .6250-24 UNEF               |
| 12         | 26.5        | 13.5        | .7500-20 UNEF               |
| 14         | 30.0        | 16.9        | .8750-20 UNEF               |
| 16         | 33.1        | 20.0        | 1.0000-20 UNEF              |
| 18         | 35.3        | 22.0        | 1.0625-18 UNEF              |
| 20         | 38.9        | 25.2        | 1.1875-18 UNEF              |
| 22         | 42.0        | 28.4        | 1.3125-18 UNEF              |
| 24         | 45.1        | 31.6        | 1.4375-18 UNEF              |

## Miniature Cylindrical MIL-C-26482, Series 2

contact information, sealing plugs,  
crimping and insertion/removal tools

MIL-C-26482, SERIES 2  
CRIMP CONTACTS

| Contact Size | Wire Range |                 | Socket Contacts      | Pin Contacts         |
|--------------|------------|-----------------|----------------------|----------------------|
|              | AWG        | mm <sup>2</sup> | Military Part Number | Military Part Number |
| 20           | 24-20      | 0.2-0.6         | M39029/5-115         | M39029/4-110         |
| 16           | 20-16      | 0.5-1.4         | M39029/5-116         | M39029/4-111         |
| 12           | 14-12      | 2-3             | M39029/5-118         | M39029/4-113         |

### CONTACT CURRENT RATING AND RETENTION

| Contact Size* | DC Test Amperage | Contact Retention |       |
|---------------|------------------|-------------------|-------|
|               |                  | Axial Load        |       |
|               |                  | lb.               | N     |
| 20            | 7.5              | 15                | 66.7  |
| 16            | 13.0             | 25                | 111.2 |
| 12            | 23.0             | 30                | 133.4 |

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

### SEALING PLUGS

| Contact Size | Sealing Plugs        |
|--------------|----------------------|
|              | Military Part Number |
| 20           | MS27488-20           |
| 16           | MS27488-16           |
| 12           | MS27488-12           |

### CRIMPING TOOLS

| Contact Size | Wire Range |                 | Finished Wire Dia. Range |           | Crimping Tool Part Number  | Turret or Positioner Part Number |
|--------------|------------|-----------------|--------------------------|-----------|----------------------------|----------------------------------|
|              | AWG        | mm <sup>2</sup> | Inch                     | mm        |                            |                                  |
| 20           | 24-20      | 0.2-0.6         | .040-.083                | 1.02-2.11 | M22520/1-01 or M22520/2-01 | M22520/1-02 or M22520/2-02       |
| 16           | 20-16      | 0.5-1.4         | .053-.103                | 1.34-2.62 | M22520/1-01                | M22520/1-02                      |
| 12           | 14-12      | 2-3             | .097-.158                | 2.46-4.01 | M22520/1-01                | M22520/1-02                      |

### INSERTION/REMOVAL TOOLS

| Contact Size | Color Code   | Military Part Number |
|--------------|--------------|----------------------|
| 20           | Red/White    | MB 1969/14-11        |
| 16           | Blue/White   | MB 1969/14-03        |
| 12           | Yellow/White | MB 1969/14-04        |

NOTE: Each connector is furnished with contacts. One spare for inserts requiring 1 to 20 of each contact, two spares for inserts with more than 26 contacts, and a minimum of one sealing plug up to 15% of the number of contacts.

## MIL - C26482, Series 2

### Ordering Information

#### HOW TO ORDER BY MILITARY PART NUMBER MIL-C-26482 SERIES 2 CONNECTORS

**MS** **3470** **W** **12** **10** **P** **W**  
1      2      3      4      5      6      7

#### 1. Connector Type

MS designates Military Standard

#### 2. Connector Style

3470 wall mounting receptacle with narrow flange

3472 wall mounting receptacle with wide flange

3471 cable connecting receptacle

3474 jam nut receptacle

3476 straight plug

3475 straight plug with RFI grounding fingers

#### 3. Service Class

L aluminum shell, electroless nickel finish, fluid resistant insert

A aluminum shell, black anodized finish, non-conductive fluid resistant insert

W aluminum shell, olive drab cadmium plated, fluid resistant insert

Note: For stainless steel shell, passivated, order by Amphenol proprietary Class G  
Class L inactive older classes E and R (Ref. MIL-C-26482)

4.,5. Shell size and insert arrangement - See chart on page 4 and pattern drawings that follow.

#### 6. Contact Types

P designates pin

S designates socket

A designates less pins

B designates less sockets

Note: Use A & B only when other than a full complement of power contacts is to be installed

#### 7. Insert Rotation

"W", "X", "Y", "Z", designates that insert is rotated in it's shell from normal position. No letter required for normal (no rotation) position. See page 4 for description of alternate positions.

For ordering information on accessories, such as protection caps and backshell hardware, contact factory.

Notes :

Notice : All information, including illustrations given herein is believed to be accurate at the time of printing. In lieu of design advances, Amphenol reserves the right to change specifications without notice. This publication MIL-C-26482, Series 2 REV 01/10 supercedes all existing Amphenol literature on Series 2 Connectors.

Notes :



# Amphenol

*A Global Company*



Pune Operations



Bangalore Operations

# Amphenol

**Interconnect India Pvt. Ltd.**

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