

# Multipin Connectors



## MULTIPIN CONNECTORS

Amphenol has an extensive range of circular and rectangular multi-pin connectors ideally suited to the entertainment industry. Featuring rugged housings and precision made contacts these connectors have proven themselves in the most demanding of applications. The extensive arrangement of different connector sizes and contact numbers ensure we can offer a solution to your multi-pin wiring applications.

### Applications

- Audio Cables and Snakes
- Lighting control
- Concert Touring Systems
- Outside Broadcast Systems

### Features / Options - MP-41 Series

- 13 to 85 pins with Crimp / Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channel
- Gold plated contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland
- 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring
- Metal Housings

### Features / Options - MP-62 Series

- 39 or 61 Solder bucket contacts
- Gold plated contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland or NPT thread
- Metal Housings

### Ordering Codes

We have listed the more common ordering codes in each section. For further options please contact us.

### Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use pins column to determine number of contacts.
- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.



## MP-41 Series

Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 150 pins with contacts supplied with each connector as standard.

### Features:


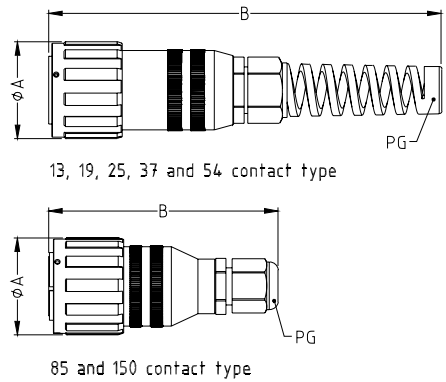

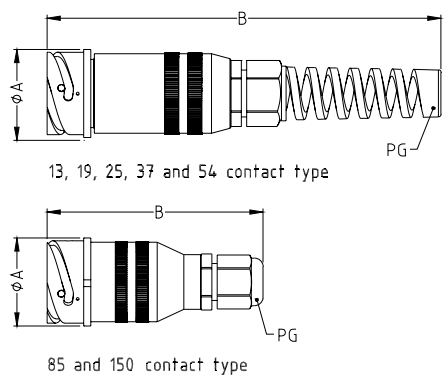
- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated
- Metal housings

**Options:** NPT threaded backshells.

**Crimp Tooling:** Page 128

**Specifications:** Page 129 **Part Number Breakdown:** Page 128


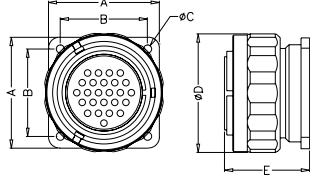

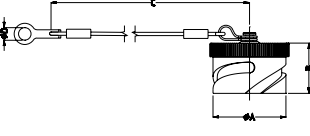
**Wiring Information:** Page 141

| PRODUCT - FIGURE  | Dimensions in mm (inches)<br>DRAWING  | Dimensions in mm (inches)   |   |                | PINS          | PART NUMBER  | PART NUMBER<br>With Dustcap |
|---|---|---|---|----------------|---------------|--------------|-----------------------------|
|   |   | A   | B   | PG             |               |              |                             |
|  <p>Straight cable plug with socket contacts, Black finish, supplied complete with contacts.</p> <p>13, 19, 25, 37 and 54 contact type</p> <p>85 and 150 contact type</p> |  | 40.5<br>(1.60)  | 160<br>(6.30)   | 11             | 13            | MP-4106-13S  | MP-4106-13S-C               |
|   |   | 44<br>(1.73)  | 171<br>(6.73)   | 13.5           | 19            | MP-4106-19S  | MP-4106-19S-C               |
|   |   | 46.6<br>(1.83)  | 193<br>(7.60)   | 16             | 25            | MP-4106-25S  | MP-4106-25S-C               |
|   |   | 54.3<br>(2.14)  | 210<br>(8.26)   | 21             | 37            | MP-4106-37S  | MP-4106-37S-C               |
|   |   | 60.1<br>(2.36)  | 210<br>(8.26)   | 21             | 54            | MP-4106-54S  | MP-4106-54S-C               |
|   |   | 73.3<br>(2.88)  | 137<br>(5.40)   | 29             | 85            | MP-4106-85S  | MP-4106-85S-C               |
|   |   | 73.3<br>(2.88)  | 145<br>(5.70)   | 36             | 150           | MP-4106-150S | MP-4106-150S-C              |
|   |   |  <p>Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.</p> <p>13, 19, 25, 37 and 54 contact type</p> <p>85 and 150 contact type</p> |  | 37.8<br>(1.49) | 160<br>(6.30) | 11           | 13                          |
| 41.1<br>(1.62)  | 171<br>(6.73)   |   |   | 13.5           | 19            | MP-4101-19P  | MP-4101-19P-C               |
| 41.5<br>(1.63)  | 193<br>(7.60)   |   |   | 16             | 25            | MP-4101-25P  | MP-4101-25P-C               |
| 51<br>(2.00)  | 210<br>(8.26)   |   |   | 21             | 37            | MP-4101-37P  | MP-4101-37P-C               |
| 57.1<br>(2.25)  | 210<br>(8.26)   |   |   | 21             | 54            | MP-4101-54P  | MP-4101-54P-C               |
| 70<br>(2.75)  | 137<br>(5.40)   |   |   | 29             | 85            | MP-4101-85P  | MP-4101-85P-C               |
| 70<br>(2.75)  | 145<br>(5.70)   |   |   | 36             | 150           | MP-4101-150P | MP-4101-150P-C              |

Note: NPT threaded backshells available on request. Please contact us.


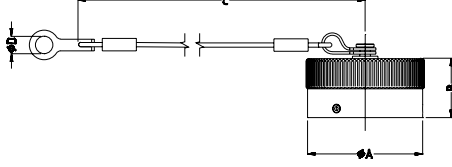

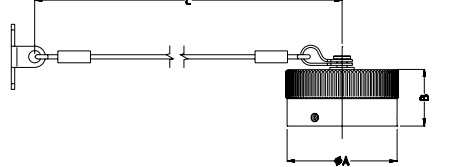
# Multipin Connectors

## MP-41 Series

| PRODUCT - FIGURE   | Dimensions in mm (inches)<br>DRAWING  | Dimensions in mm (inches) |                |                |                 |                |                | PINS           | PART NUMBER   | PART NUMBER<br>With Dustcap |
|--|---|---------------------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|-----------------------------|
|  |   | A                         | B              | C              | D               | E              | F              |                |               |                             |
| <br>     | Panel plug with socket contacts, black finish, supplied complete with contacts. | 38<br>(1.49)              | 29.4<br>(1.15) | 3.2<br>(0.13)  | 40.5<br>(1.60)  | 38.8<br>(1.53) | N/A            | 13             | MP-4164-13S   | MP-4164-13S-C               |
|  |   | 41<br>(1.61)              | 31.8<br>(1.25) | 3.2<br>(0.13)  | 44<br>(1.73)    | 38.8<br>(1.53) | N/A            | 19             | MP-4164-19S   | MP-4164-19S-C               |
|  |   | 44.5<br>(1.75)            | 34.9<br>(1.37) | 3.73<br>(0.14) | 48.51<br>(1.91) | 40.6<br>(1.60) | N/A            | 25             | MP-4164-25S   | MP-4164-25S-C               |
|  |   | 50.8<br>(1.99)            | 39.7<br>(1.56) | 3.73<br>(0.14) | 54.3<br>(2.14)  | 42<br>(1.65)   | N/A            | 37             | MP-4164-37S   | MP-4164-37S-C               |
|  |   | 57<br>(2.24)              | 44.5<br>(1.75) | 4.39<br>(0.17) | 60.8<br>(2.40)  | 45<br>(1.77)   | N/A            | 54             | MP-4164-54S   | MP-4164-54S-C               |
|  |   | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.39<br>(0.17) | 73.3<br>(2.88)  | 45<br>(1.77)   | N/A            | 85             | MP-4164-85S   | MP-4164-85S-C               |
|  |   | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.39<br>(0.17) | 73.3<br>(2.88)  | 45<br>(1.77)   | N/A            | 150            | MP-4164-150S  | MP-4164-150S-C              |
|  |   | 38<br>(1.49)              | 29.4<br>(1.15) | 3.23<br>(0.13) | 34.2<br>(1.34)  | 34.5<br>(1.35) | 29<br>(1.14)   | 13             | MP-4102-13P   | MP-4102-13P-C               |
|  |   | 41<br>(1.61)              | 31.8<br>(1.25) | 3.23<br>(0.13) | 37.4<br>(1.47)  | 34.5<br>(1.35) | 32.2<br>(1.26) | 19             | MP-4102-19P   | MP-4102-19P-C               |
|  |   | 44.5<br>(1.75)            | 34.9<br>(1.37) | 3.73<br>(0.14) | 40.9<br>(1.61)  | 35.7<br>(1.40) | 35.3<br>(1.38) | 25             | MP-4102-25P   | MP-4102-25P-C               |
| 50.8<br>(1.99)   | 39.7<br>(1.56)  | 3.73<br>(0.14)            | 46.7<br>(1.83) | 36.5<br>(1.44) | 41.4<br>(1.62)  | 37             | MP-4102-37P    | MP-4102-37P-C  |               |                             |
| 57<br>(2.24)   | 44.5<br>(1.75)  | 4.30<br>(0.17)            | 53.4<br>(2.10) | 38.5<br>(1.52) | 47.8<br>(1.88)  | 54             | MP-4102-54P    | MP-4102-54P-C  |               |                             |
| 69.8<br>(2.74)   | 55.5<br>(2.18)  | 4.30<br>(0.17)            | 65.5<br>(2.57) | 38.5<br>(1.52) | 59<br>(2.32)    | 85             | MP-4102-85P    | MP-4102-85P-C  |               |                             |
| 69.8<br>(2.74)   | 55.5<br>(2.18)  | 4.30<br>(0.17)            | 65.5<br>(2.57) | 38.5<br>(1.52) | 59<br>(2.32)    | 150            | MP-4102-150P   | MP-4102-150P-C |               |                             |
| <br> | Plug protective dustcap to suit MP-4164 type.                                   | 34.16<br>(1.35)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 13             | MP-25042-13S  | -                           |
|  |   | 37.36<br>(1.47)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 19             | MP-25042-19S  | -                           |
|  |   | 40.87<br>(1.61)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 25             | MP-25042-25S  | -                           |
|  |   | 46.68<br>(1.84)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 37             | MP-25042-37S  | -                           |
|  |   | 53.36<br>(2.10)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 54             | MP-25042-54S  | -                           |
|  |   | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 85             | MP-25042-85S  | -                           |
|  |   | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 150            | MP-25042-150S | -                           |
|  |   | 38.8<br>(1.53)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 13             | MP-25042-13L  | -                           |
| 41.6<br>(1.64)   | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 19             | MP-25042-19L   | -              |               |                             |
| 45.3<br>(1.78)   | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 25             | MP-25042-25L   | -              |               |                             |
| 52.15<br>(2.05)  | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 37             | MP-25042-37L   | -              |               |                             |
| 58.6<br>(2.30)   | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 54             | MP-25042-54L   | -              |               |                             |
| 70.7<br>(2.78)   | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 85             | MP-25042-85L   | -              |               |                             |
| 70.7<br>(2.78)   | 20.7<br>(0.81)  | 255<br>(8.07)             | -              | -              | -               | 150            | MP-25042-150L  | -              |               |                             |

# Multipin Connectors

## MP-41 Series

| PRODUCT - FIGURE  | Dimensions in mm (inches)<br>DRAWING  | Dimensions in mm (inches)  |  |                |                |               |   | PINS | PART NUMBER   |
|---|---|--|--|----------------|----------------|---------------|---|------|---------------|
|   |   | A  | B  | C              | D              | E             | F |      |               |
|  |  | 34.16<br>(1.35)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 4.7<br>(0.18)  | -             | - | 13   | MP-25043-13S  |
|   |   | 37.36<br>(1.47)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 4.7<br>(0.18)  | -             | - | 19   | MP-25043-19S  |
|   |   | 40.87<br>(1.61)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 4.7<br>(0.18)  | -             | - | 25   | MP-25043-25S  |
|   |   | 46.68<br>(1.84)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 4.7<br>(0.18)  | -             | - | 37   | MP-25043-37S  |
|   |   | 53.36<br>(2.10)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 5.5<br>(0.22)  | -             | - | 54   | MP-25043-54S  |
|   |   | 65.48<br>(2.58)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 5.5<br>(0.22)  | -             | - | 85   | MP-25043-85S  |
|   |   | 65.48<br>(2.58)  | 31.5<br>(1.24)   | 110<br>(4.33)  | 5.5<br>(0.22)  | -             | - | 150  | MP-25043-150S |
|   |   |  |  | 38.8<br>(1.53) | 20.7<br>(0.81) | 255<br>(8.07) | - | -    | -             |
| 41.6<br>(1.64)  | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 19   | MP-25043-19L  |
| 45.3<br>(1.78)  | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 25   | MP-25043-25L  |
| 52.15<br>(2.05)   | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 37   | MP-25043-37L  |
| 58.6<br>(2.30)  | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 54   | MP-25043-54L  |
| 70.7<br>(2.78)  | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 85   | MP-25043-85L  |
| 70.7<br>(2.78)  | 20.7<br>(0.81)  |  |  | 255<br>(8.07)  | -              | -             | - | 150  | MP-25043-150L |

# Multipin Connectors

## MP-41 Series

| PRODUCT - FIGURE  | DRAWING | DESCRIPTION  | NO. OF PINS     | PART NUMBER  |
|---|---------|--|-----------------|--------------|
|    | N/A     | Crimp Tool   | All             | M22520/1-01  |
|    | N/A     | Positioner / Turret  | All             | TH29-1       |
|    | N/A     | Insertion tool   | 13-85           | MP-INS-16    |
|   |         |  | 150             | MP-INS-18    |
|    | N/A     | Extraction tool  | All             | MP-EXT-16/18 |
|    | N/A     | Contact Pilot Pin  | 13-85           | MP-GUIDE-16  |
|   |         |  | 150             | MP-GUIDE-18  |
|    | N/A     | Solder/Crimp Pin Contact   | 13-85 (Size 16) | MP-108400    |
|   |         | Crimp Pin Contact<br>(Soldering of this contact is not recommended)    | 150 (Size 18)   | MP-108300    |
|  | N/A     | Solder/Crimp Socket Contact  | 13-85 (Size 16) | MP-108600    |
|   |         | Crimp Socket Contact<br>(Soldering of this contact is not recommended) | 150 (Size 18)   | MP-108500    |

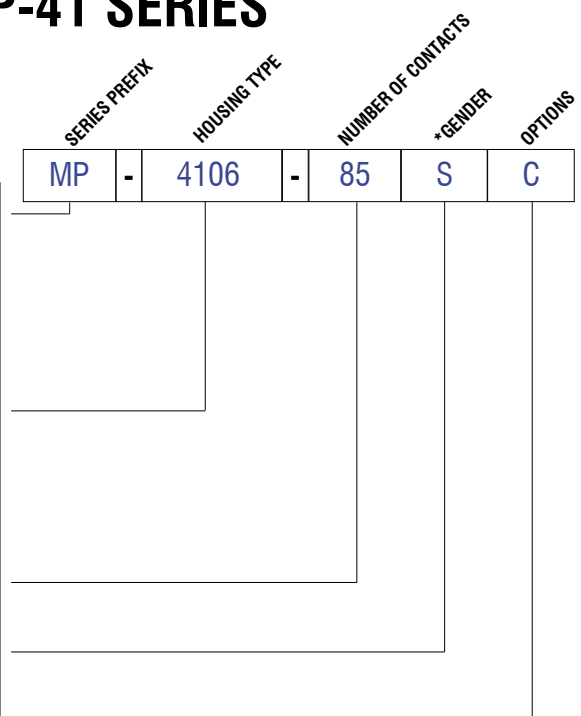
**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication PI523 located on our website [www.amphenolaudio.com](http://www.amphenolaudio.com).

# PART NUMBER BREAKDOWN MP-41 SERIES

## MULTIPIN CIRCULAR CONNECTORS

E. G. **MP-4106-85S**  
Multipin, **4106** Cable Plug, **85** Contacts, **S** Female Socket Contacts,

|  |        |   |                                    |
|--|--------|---|------------------------------------|
| <b>SERIES PREFIX</b>   | MP     | = | Series Prefix                      |
| <b>HOUSING TYPE</b>  | 4101   | = | Inline cable connecting receptacle |
|  | 4102   | = | Panel receptacle                   |
|  | 4106   | = | Cable plug                         |
|  | 4164   | = | Panel plug                         |
|  | 25042S | = | Dustcap for panel plug             |
|  | 25042L | = | Dustcap for cable plug             |
|  | 25043S | = | Dustcap for panel receptacle       |
|  | 25043L | = | Dustcap for cable receptacle       |
| <b>NO. OF CONTACTS</b>   |        |   | 13, 19, 25, 37, 54, 85, 150        |
| <b>GENDER</b><br><small>*Not required for dustcap part numbers</small> | P      | = | Male pin contacts                  |
|  | S      | = | Female socket contacts             |
| <b>OPTIONS</b>   | C      | = | Supplied with Dustcap              |



### STANDARD DATA MP-41 SERIES

|                                   |  | VALUE  |                       |                       |                        |                        |                        |         |
|-----------------------------------|--|--|-----------------------|-----------------------|------------------------|------------------------|------------------------|---------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                     | 13   | 19                    | 25                    | 37                     | 54                     | 85                     | 150     |
|                                   | Number of channels                     | 4  | 6                     | 8                     | 12                     | 16                     | 28                     | 48      |
|                                   | Termination                            | Solder / Crimp "Combo"                       |                       |                       |                        |                        |                        | Crimp   |
|                                   | Wire Gauge - Stranded Wire             | 16AWG - 20AWG                                |                       |                       |                        |                        |                        | 18AWG   |
|                                   | Environmental                          | Complies with EU RoHS 2 Directive 2011/65/EU |                       |                       |                        |                        |                        |         |
| <b>ELECTRICAL CHARACTERISTICS</b> | Operating Voltage at Sea level - DC    | 250V*  |                       |                       |                        |                        |                        | 250V*   |
|                                   | Operating Voltage at Sea level - AC    | 200V*  |                       |                       |                        |                        |                        | 200V*   |
|                                   | Test Voltage AC RMS                    | 1000V  |                       |                       |                        |                        |                        | 1000V   |
|                                   | Current Carrying Capacity              | 13A  |                       |                       |                        |                        |                        | 7.5A    |
|                                   | Typical Contact Resistance             | 3.46mΩ                                       |                       |                       |                        |                        |                        | 11.25mΩ |
|                                   | Insulation Resistance                  | 5000MΩ                                       |                       |                       |                        |                        |                        |         |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                       | IP67 (when mated)                            |                       |                       |                        |                        |                        |         |
|                                   | Operating Temperature                  | -55°C to +125°C (-67°F to +257°F)            |                       |                       |                        |                        |                        |         |
| <b>MECHANICAL CHARACTERISTICS</b> | Cable Retention                        | PG Gland                                     |                       |                       |                        |                        |                        |         |
|                                   | Mechanical Operations                  | 2000 mating cycles                           |                       |                       |                        |                        |                        |         |
| <b>MATERIALS</b>                  | Connector / Shell Finish               | Aluminium Alloy / Black                      |                       |                       |                        |                        |                        |         |
|                                   | Insert                                 | Synthetic Insert to MIL-R-3065               |                       |                       |                        |                        |                        |         |
|                                   | Male pin contact / Plating             | Brass / Gold plated                          |                       |                       |                        |                        |                        |         |
|                                   | Female socket contact / Plating        | Brass / Gold plated                          |                       |                       |                        |                        |                        |         |
| <b>CLAMPING CHARACTERISTICS</b>   | PG Gland                               | 11   | 13.5                  | 16                    | 21                     | 29                     | 36                     |         |
|                                   | Cable Clamping range<br>mm<br>(inches) | 4-10<br>(0.15"-0.39")                        | 5-12<br>(0.19"-0.47") | 9-14<br>(0.35"-0.55") | 13-18<br>(0.51"-0.70") | 14-25<br>(0.55"-0.98") | 19-32<br>(0.74"-1.25") |         |

Rev 2 - 03/2013

\*Not suitable for domestic applications above 50V

# Multipin Connectors

MP-62 / MP-65 Series



## MP-62 / MP-65 Series

Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61 with gold plated solder contacts fitted as standard.

### Features:


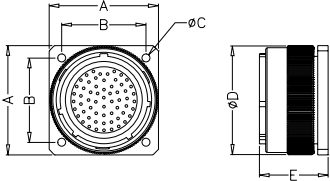

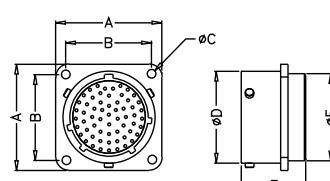
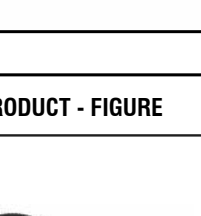
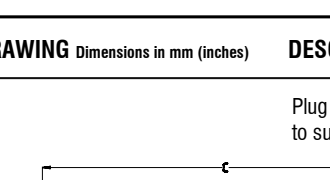
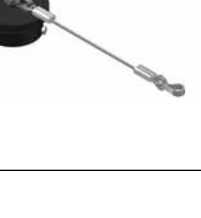

- 39 or 61 pins.
- Gold plated solder contacts.
- Neoprene insert.
- Protective dust caps
- Metal housings
- Environmental resistant.
- Black finish.
- Positive bayonet locking
- PG cable glands


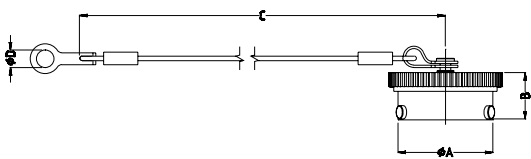

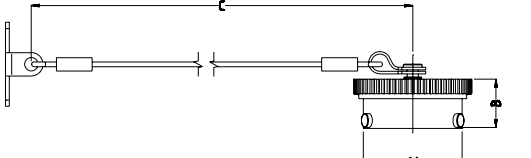

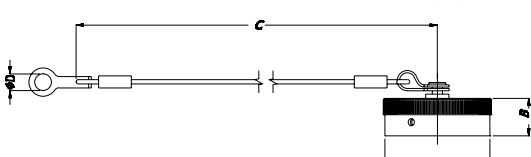

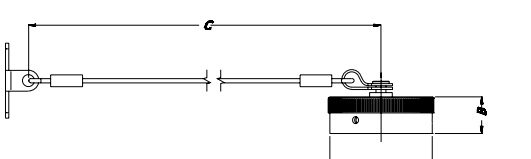
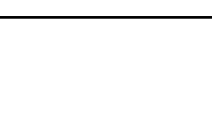



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| PRODUCT - FIGURE | Dimensions in mm (inches)<br>DRAWING   | Dimensions in mm (inches) |                 |     | PINS | PART NUMBER | PART NUMBER<br>With Dustcap |
|------------------|--|---------------------------|-----------------|-----|------|-------------|-----------------------------|
|                  |  | A                         | B               | PG  |      |             |                             |
|                  | <p>Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.</p>   | 38.9<br>(1.53)            | 181.5<br>(7.15) | 16  | 39   | MP-6216-39P | MP-6216-39P-C               |
|                  |  | 45.5<br>(1.80)            | 193<br>(7.60)   | 21  | 61   | MP-6216-61P | MP-6216-61P-C               |
|                  | <p>Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.</p>                              | 36.7<br>(1.45)            | 181.5<br>(7.15) | 16  | 39   | MP-6211-39S | MP-6211-39S-C               |
|                  |  | 43.0<br>(1.70)            | 193<br>(7.60)   | 21  | 61   | MP-6211-61S | MP-6211-61S-C               |
|                  | <p>Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.</p>            | 38.9<br>(1.53)            | 90<br>(3.54)    | NPT | 39   | MP-6516-39P | MP-6516-39P-C               |
|                  |  | 45.5<br>(1.80)            | 100<br>(3.94)   | NPT | 61   | MP-6516-61P | MP-6516-61P-C               |
|                  | <p>Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.</p> | 36.7<br>(1.45)            | 90<br>(3.54)    | NPT | 39   | MP-6511-39S | MP-6511-39S-C               |
|                  |  | 43.0<br>(1.70)            | 100<br>(3.94)   | NPT | 61   | MP-6511-61S | MP-6511-61S-C               |

# Multipin Connectors

## MP-62 / MP-65 Series

| PRODUCT - FIGURE  | DRAWING<br>Dimensions in mm (inches)  | Dimensions in mm (inches) |        |        |        |        |        | PINS | PART NUMBER | PART NUMBER<br>With Dustcap |
|---|---|---------------------------|--------|--------|--------|--------|--------|------|-------------|-----------------------------|
|   |   | A                         | B      | C      | D      | E      | F      |      |             |                             |
|    | <p>Panel plug with pin contacts, Black finish, Gold plated solder contacts.</p>                  | 38.86                     | 29.36  | 6-32   | 39.0   | 32     | -      | 39   | MP-6256-39P | MP-6256-39P-C               |
|   |   | (1.53)                    | (1.16) | UNC    | (1.54) | (1.26) | -      |      |             |                             |
|    | <p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>    | 43.94                     | 34.93  | 6-32   | 45.5   | 35     | -      | 61   | MP-6256-61P | MP-6256-61P-C               |
|   |   | (1.73)                    | (1.38) | UNC    | (1.80) | (1.38) | -      |      |             |                             |
|   | <p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>   | 36.7                      | 29.36  | 3.05   | 31.8   | 22.3   | 30.1   | 39   | MP-6212-39S | MP-6212-39S-C               |
|   |   | (1.44)                    | (1.15) | (0.12) | (1.25) | (0.87) | (1.18) |      |             |                             |
|  | <p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>  | 43.0                      | 34.93  | 3.74   | 38.1   | 22.3   | 36.4   | 61   | MP-6212-61S | MP-6212-61S-C               |
|   |   | (1.69)                    | (1.38) | (0.15) | (1.50) | (0.87) | (1.43) |      |             |                             |

| PRODUCT - FIGURE  | DRAWING<br>Dimensions in mm (inches)  | DESCRIPTION                                   | Dimensions in mm (inches) |        |        |        | PINS | PART NUMBER |
|---|---|---|---------------------------|--------|--------|--------|------|-------------|
|   |   |   | A                         | B      | C      | D      |      |             |
|   |   | Plug protective dustcap to suit MP-6256       | 31.7                      | 15.9   | 127    | 4.40   | 39   | MP-742-39S  |
|   |   |   | (1.25)                    | (0.62) | (4.99) | (0.17) |      |             |
|  |  | Plug protective dustcap to suit MP-6256       | 38.05                     | 16.70  | 127    | 4.40   | 61   | MP-742-61S  |
|   |   |   | (1.50)                    | (0.66) | (4.99) | (0.17) |      |             |
|  |  | Receptacle protective dustcap to suit MP-6216 | 36.9                      | 13.13  | 127    | -      | 39   | MP-742-39L  |
|   |   |   | (1.45)                    | (0.52) | (4.99) | -      |      |             |
|  |  | Receptacle protective dustcap to suit MP-6216 | 43.14                     | 14.15  | 127    | -      | 61   | MP-742-61L  |
|   |   |   | (1.70)                    | (0.56) | (4.99) | -      |      |             |
|  |  | Plug protective dustcap to suit MP-6212       | 31.7                      | 15.9   | 127    | 4.40   | 39   | MP-738-39S  |
|   |   |   | (1.25)                    | (0.62) | (4.99) | (0.17) |      |             |
|  |  | Plug protective dustcap to suit MP-6212       | 38.05                     | 16.70  | 127    | 4.40   | 61   | MP-738-61S  |
|   |   |   | (1.50)                    | (0.66) | (4.99) | (0.17) |      |             |
|  |  | Receptacle protective dustcap to suit MP-6211 | 36.9                      | 13.13  | 127    | -      | 39   | MP-738-39L  |
|   |   |   | (1.45)                    | (0.52) | (4.99) | -      |      |             |
|  |  | Receptacle protective dustcap to suit MP-6211 | 43.14                     | 14.15  | 127    | -      | 61   | MP-738-61L  |
|   |   |   | (1.70)                    | (0.56) | (4.99) | -      |      |             |



# Multipin Connectors

MP-62 / MP-65 Series

## STANDARD DATA MP-62 SERIES / MP - 65 SERIES

|                                   |  | VALUE  |                     |
|-----------------------------------|--|--|---------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                       | 39   | 61                  |
|                                   | Number of channels                       | 12   | 20                  |
|                                   | Termination                              | Solder                                       |                     |
|                                   | Wire Gauge - Stranded Wire               | 37 x 24AWG-20AWG<br>2 x 20AWG-16AWG          | 24AWG-20AWG         |
|                                   | Environmental                            | Complies with EU RoHS 2 Directive 2011/65/EU |                     |
| <b>ELECTRICAL CHARACTERISTICS</b> | Operating Voltage at Sea level - DC      | 600V*  |                     |
|                                   | Operating Voltage at Sea level - AC      | 600V*  |                     |
|                                   | Test Voltage AC RMS                      | 1500V  |                     |
|                                   | Current Carrying Capacity                | 37 x 7.5A<br>2 x 13A                         | 7.5A                |
|                                   | Insulation Resistance                    | 5000MΩ                                       |                     |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                         | IP67 (when mated)                            |                     |
|                                   | Operating Temperature                    | -55°C to +125°C (-67°F to +257°F)            |                     |
| <b>MECHANICAL CHARACTERISTICS</b> | Cable Retention                          | PG Gland / NPT Thread                        |                     |
|                                   | Mechanical Operations                    | 500 mating cycles (minimum)                  |                     |
| <b>MATERIALS</b>                  | Connector / Shell Finish                 | Aluminium Alloy / Black                      |                     |
|                                   | Insert                                   | Neoprene                                     |                     |
|                                   | Male pin contact machined - Plating      | Brass / Gold plated                          |                     |
|                                   | Female socket contact machined - Plating | Brass / Gold plated                          |                     |
| <b>CLAMPING CHARACTERISTICS</b>   | PG Gland                                 | 16   | 21                  |
|                                   | Cable Clamping range mm (inches)         | 9-14 (0.35"-0.55")                           | 13-18 (0.51"-0.70") |

\*Not suitable for domestic applications above 50V

Rev 3 - 03/2013



### AMPHENOL-TUCHEL C146 HEAVY | MATE CONNECTORS

Amphenol Tuchel C146 series rectangular connectors feature modular components ensuring a vast range of different features and benefits for the end user. The zinc diecast aluminum housings are finished in a durable powder coat and available in either top or side entry. Connector coupling is achieved via a positive locking lever ensuring a positive rapid connection. The C146 series is suitable for general-purpose audio and lighting applications and is completely intermateable with all competitor connectors.



### FIBRE OPTIC

Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and cable assemblies for indoor or outdoor applications.

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