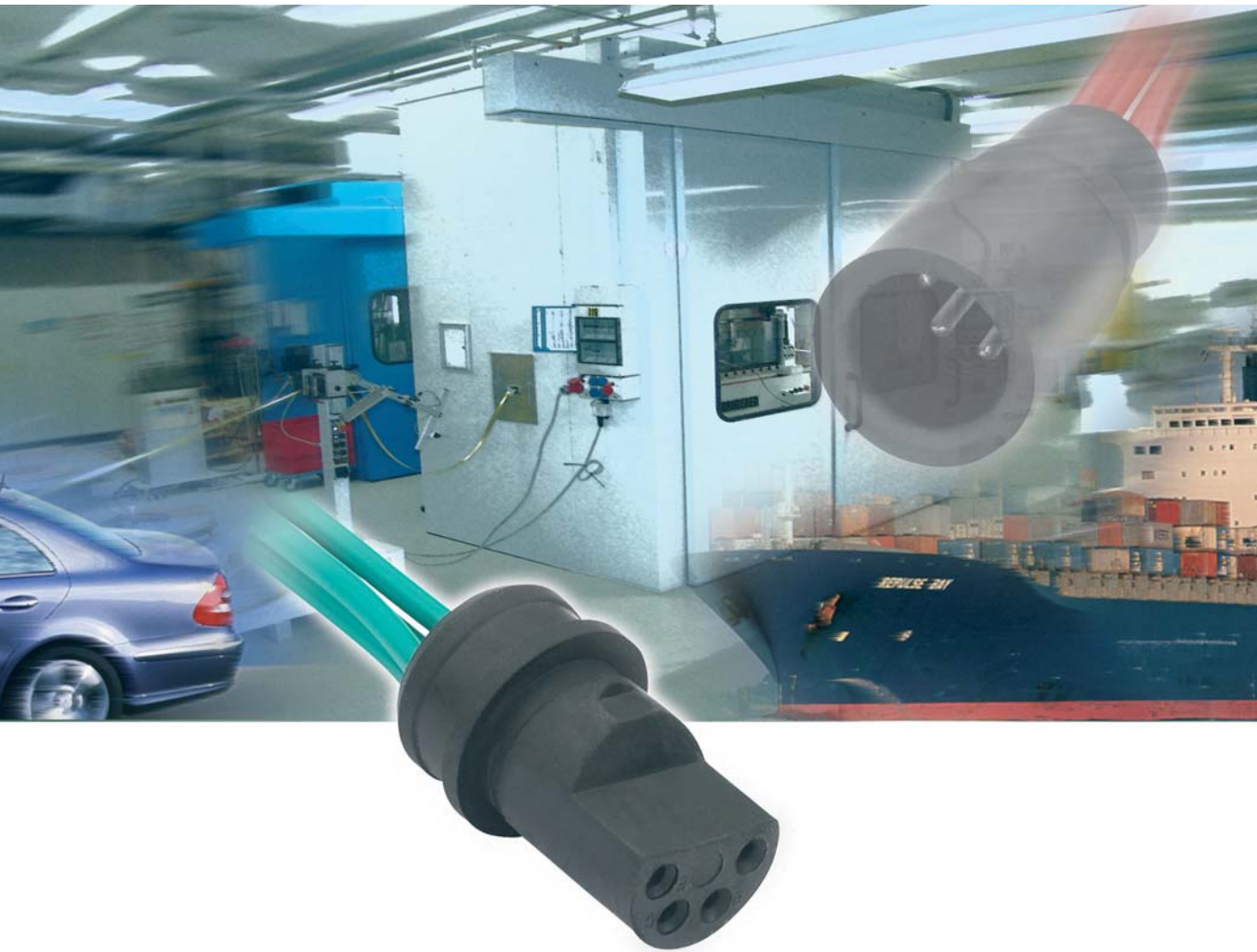


# Amphenol

Amphenol-Tuchel Electronics GmbH

## 44 Series Circular Connectors



# Amphenol 44 Series

## Economic Environmental Connecting Solutions

### Description

Amphenol 44 series associates easy assembly with high performance and an inexpensive price. The easy one piece structure is impervious against water, fuel, lubricants, ozone, road salt and other environmental impacts. Furthermore the 44 series is vibrati-on resistant and field proven in rugged applications. Due to the high quality and the excellent price/perfor-mance relationship there is a wide range of applicati-ons for this connector series.

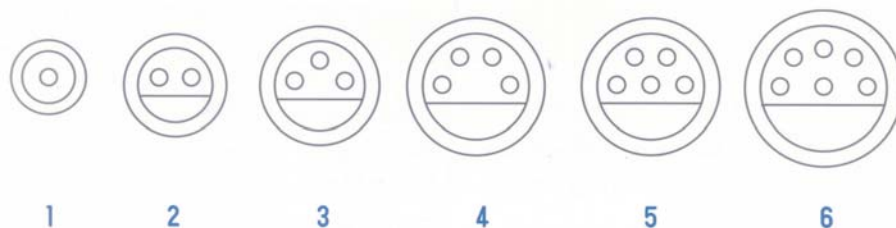
### Features

- Long time resistance against environmental impacts
- 3 liquid proof seals (primary, secondary and wire)
- Quick and easy assembly
- Quick and easy mating
- Protection against mismatching
- Protection class IP65/67
- High reliability
- Discrete wire interconnection
- 1,2,3,4,5 and 6 contact configurations available
  - 1 to 6 standard type
  - 2 to 6 low insertation force type

### Applications

- Automotive safety and security system connectors
- Traffic control equipment
- Marine industrial connectors
- Truck accessory disconnects
- Mining ventilation systems
- Car interconnections
- RV interconnections

### Insert configurations



Remark: For the low insertation force type configuration 4 differs.

# Amphenol 44 Series

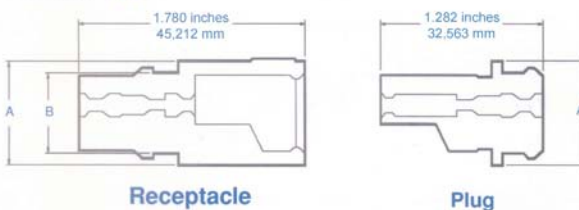
## Technical Characteristics

|                                  |  |
|----------------------------------|--|
| Rated insulation voltage         | 250 V~   |
| Rated impulse withstand voltage  | 1000 V~  |
| Current carrying capacity        | 8 A  |
| Insulation resistance            | > 5000 MΩ  |
| Contact resistance               | < 30 mΩ  |
| Operating temperature            | - 40°C to +105°C   |
| Wire gauge                       | AWG 18 – AWG 14 (1,0 mm <sup>2</sup> - 2,5 mm <sup>2</sup> ) |
| Overall wire insulation diameter | 0.080 to 0.130 inches (2,03 to 3,30 mm)                      |
| Contact Material                 | Tinned copper alloy  |
| Insulation material              | Santoprene, thermoplastic rubber                             |
| Mating cycles                    | Max. 25  |
| Contact retention                | Axial displacement of contact < 0.03 inches (0,762 mm)       |
| Color                            | Black  |

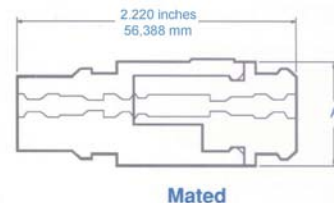
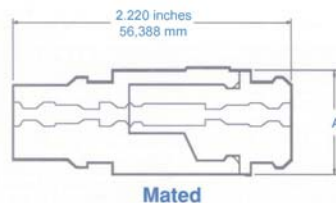
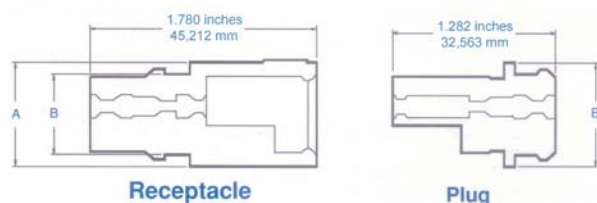
## Dimensions

| No. of contacts | A                        | B                        |
|-----------------|--------------------------|--------------------------|
| 1               | 0.497 inches (12,624 mm) | 0.440 inches (11,176 mm) |
| 2               | 0.607 inches (15,418 mm) | 0.470 inches (11,938 mm) |
| 3               | 0.708 inches (17,983 mm) | 0.570 inches (14,478 mm) |
| 4               | 0.819 inches (20,803 mm) | 0.682 inches (17,323 mm) |
| 5               | 0.819 inches (20,803 mm) | 0.682 inches (17,323 mm) |
| 6               | 0.933 inches (23,698 mm) | 0.796 inches (20,218 mm) |

### Standard Type



### Low Insertion Force Type



# Ordering Information

## Amphenol 44 Series

### Standard Type (Insulation only)

| No. of contacts | Receptacles Part No. | Plug Part No. |
|-----------------|----------------------|---------------|
| 1               | 044-104-10001-02     | 044-103-10001 |
| 2               | 044-104-10002-02     | 044-103-10002 |
| 3               | 044-104-10003-02     | 044-103-10003 |
| 4               | 044-104-10004-02     | 044-103-10004 |
| 5               | 044-104-10005-02     | 044-103-10005 |
| 6               | 044-104-10006-02     | 044-103-10006 |



### Low insertion force type (Insulation only)

| No. of contacts | Receptacles Part No. | Plug Part No. |
|-----------------|----------------------|---------------|
| 2               | 044-104-10302        | 044-103-10302 |
| 3               | 044-104-10303        | 044-103-10303 |
| 4               | 044-104-10304        | 044-103-10304 |
| 5               | 044-104-10305        | 044-103-10305 |
| 6               | 044-104-10306        | 044-103-10306 |

Remark: Connector with one contact size is not available in low insertion force type  
The standard and low insertion force housings are not intermable

### Contacts

| Pin contacts (receptacle) | Socket contacts (plug)  | Pcs  | Remark                               |
|---------------------------|-------------------------|------|--------------------------------------|
| 044-100-1414P-100(101)    | 044-102-1414S-100(101)  | 100  | Bag for use with hand crimping tool  |
| 044-100-1414P-1000(101)   | 044-102-1414S-1000(101) | 1000 | Bag for use with hand crimping tool  |
| ZN01 020 0009 7           | ZN02 020 0009 7         | 200  | Reel for use with hand crimping tool |

Reels with 2000 and 5000 pcs. for automatic crimping tool on request

### Tools

| Description                        | Part No.    | Crimping dies | Remark             |
|------------------------------------|-------------|---------------|--------------------|
| Hand crimping tool without ratchet | 357-561     | -             | For loose contacts |
| Hand crimping tool with ratchet    | 357-588     | -             | For loose contacts |
| Hand crimping tool                 | FA 0000 114 | FA 0006 143   | For 200 pcs. reel  |

Automatic crimping tool on request

### Hand insertion and removal tools

| Description         | Contact part No. | Insertion tool | Removal tool | Remark                   |
|---------------------|------------------|----------------|--------------|--------------------------|
| Pin contact tool    | 044-100-1414P    | 356-258        | 356-259      | Use with receptacle only |
|                     | ZN01 020 0009 7  |                |              |                          |
| Socket contact tool | 044-102-1414S    | 356-258        | 356-260      | Use with plugs only      |
|                     | ZN02 020 0009 7  |                |              |                          |

#### General information

We reserve the right to change the design due to improvement in quality, development or production requirements.

This catalog must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code)

# Amphenol

Amphenol-Tuchel Electronics GmbH

August-Haeusser-Str.10 • D-74080 Heilbronn • Germany • Phone +49(0) 7131 929-0 • Fax +49(0) 7131 929-486 • www.amphenol.info

Amphenol-Tuchel Electronics

6900 Haggerty Road • Suite 200 • Canton, Michigan 48187 • Phone +1 800-380-8052 • Phone +1 734-451-6400 • Fax +1 734-451-7197