

# 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 vibration resistant and field proven in rugged applications. Due to the high quality and the excellent price/performance relationship there is a wide range of applications for this connector series.

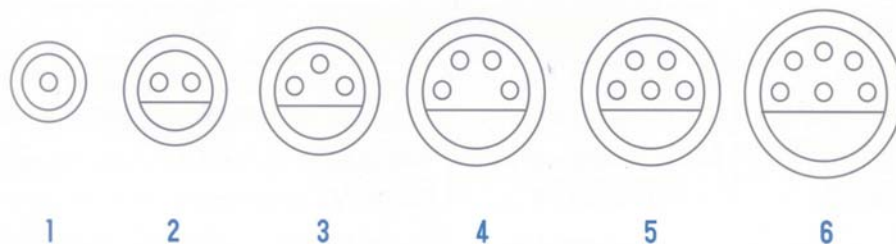
### Features

- 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 insertion 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 insertion force type configuration 4 differs.

# Amphenol 44 Series

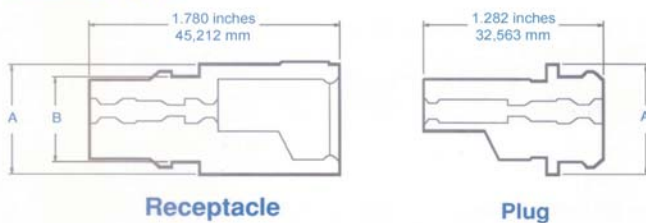
## Technical Characteristics

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
Strain relief	For free connectors, the wires have to be prevented against push-/pull-forces and from rotation at the connection area.

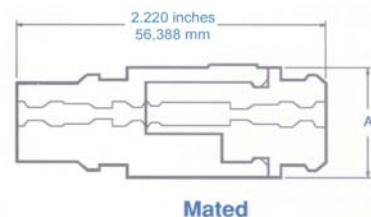
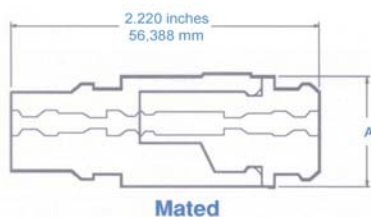
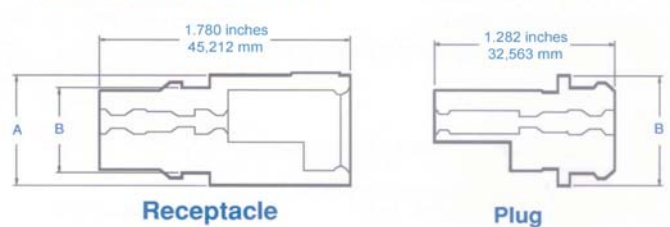
## Dimensions

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 intermatable

### 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

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

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)

All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties.

# 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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.