

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.

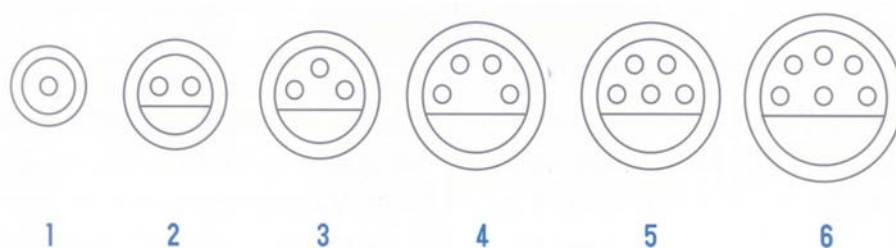
Features

- 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

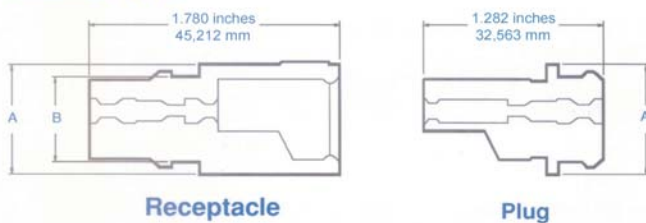
Technical Characteristics

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 mm² - 2,5 mm²)
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.

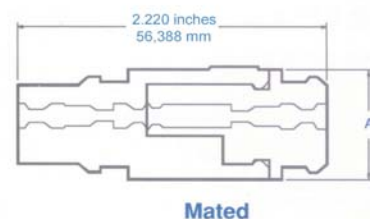
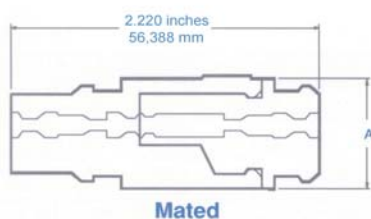
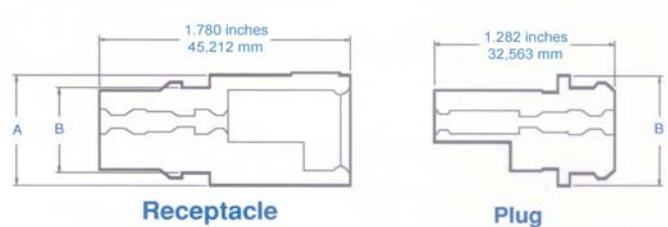
Dimensions

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 ZN01 020 0009 7	356-258	356-259	Use with receptacle only
Socket contact tool	044-102-1414S ZN02 020 0009 7	356-258	356-260	Use with plugs only

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9