

# Amphenol-Tuchel Electronics 44 Series

## COST-EFFECTIVE ENVIRONMENTAL SEALING

Amphenol Tuchel 44 series connectors offer cost-effective performance for applications requiring environmental sealing. The connector's single-piece structure is resistant to water, fuel, lubricants, ozone, road salt and vibration.



### APPLICATIONS

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

### FEATURES

- Long-term resistance against environmental impacts
- 3 liquid-proof seals (primary, secondary & wire)
- Quick & easy assembly
- Quick & easy mating
- Protection against mismatching
- Protection class IP 65/67
- High-reliability
- Discrete wire interconnection
- 2 to 6 low-insertion-force types

### TECHNICAL SPECIFICATIONS

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	18 – 14 AWG (1.0 - 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	25 max.
Contact Retention	Axial displacement of contact < 0.03 inches (0,762 mm)
Color	Black

### PART NUMBERS

# OF CONTACTS	RECEPTACLE (PIN)	PLUG (SOCKET)	LOW-INSERTION	
			RECEPTACLE (PIN)	PLUG (SOCKET)
1	44-104-10001-02	44-103-10001	-	-
2	44-104-10002-02	44-103-10002	44-104-10302	44-103-10302
3	44-104-10003-02	44-103-10003	44-104-10303	44-103-10303
4	44-104-10004-02	44-103-10004	44-104-10304	44-103-10304
5	44-104-10005-02	44-103-10005	44-104-10305	44-103-10305
6	44-104-10006-02	44-103-10006	44-104-10306	44-103-10306

### CONTACTS & TOOLING

PIN CONTACTS (RECEPTACLES)	SOCKET CONTACTS (PLUG)	PCS	CRIMP TOOL		INSERTION TOOL	EXTRACTION TOOL
			W/O RATCHET	WITH RATCHET		
44-100-1414P	44-102-1414S	1	357-561	357-588	356-258	PIN
44-100-1414P-100-101	44-102-1414S-100-101	100	357-561	357-588	356-258	356-258
44-100-1414P-1000-101	44-102-1414S-1000-101	1000	357-561	357-588	356-258	SOCKET 356-260