

**164 Series**

# **Amphenol**

## **Waterproof Audio Connectors**



**Amphenol**

## Introduction

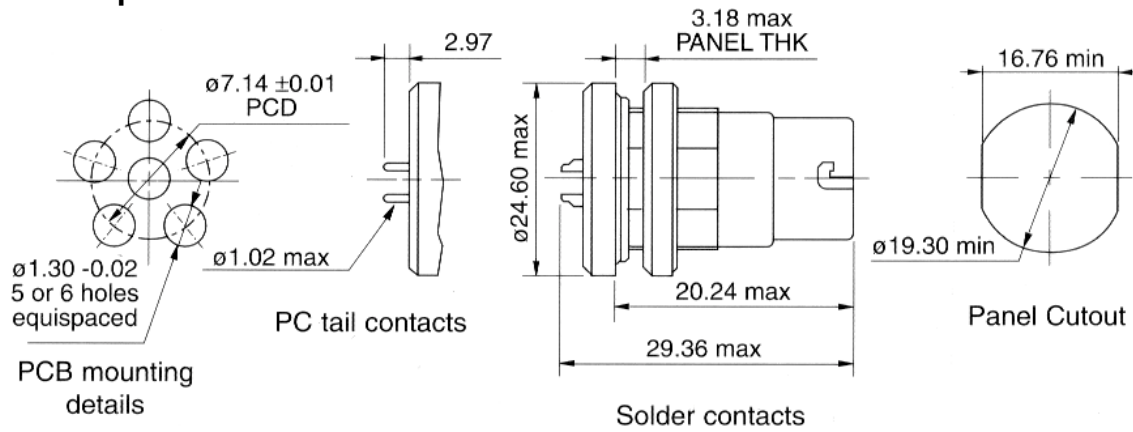
Amphenol 164 Series connectors are waterproof, polarised, five and six contact electrical connectors, for use in low voltage audio frequency circuits and applications. They employ three-point bayonet coupling for quick disconnect and self-wipe contact action. Although designed for use in communications equipment, these versatile connectors have been successfully adapted for use in numerous industrial, scientific and educational applications.

Amphenol 164 Series connectors are designed to meet the requirements of **MIL-C-55116**. They are intermateable and interchangeable with all MIL-C-55116 connectors.

## Specifications

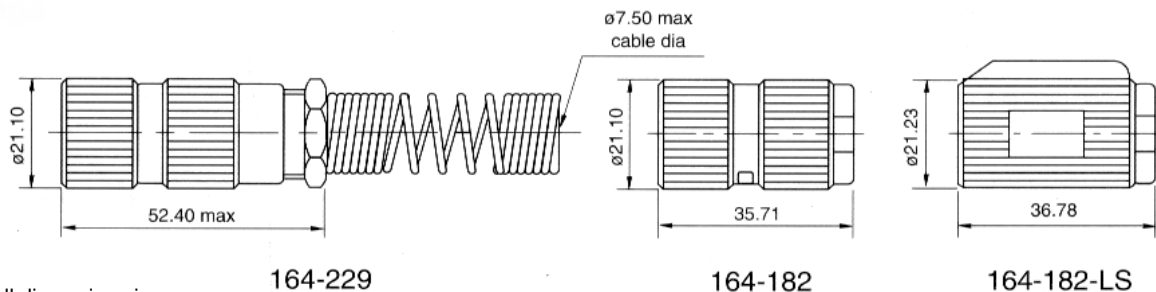
Number of Contacts	5 or 6
Operating Temperature	-55°C to +85°C
Operating Current	500 mA per contact
Operating Voltage	60 V max
Contact Resistance	$\leq 40\Omega$
Insulation Resistance	$\leq 1000\text{ M}\Omega$ @ 100 V DC
Voltage Proof	500Vrms
Sealing	0.17 kg/cm <sup>2</sup>
Materials :	Insulator : DAP
	Contact : Brass
	Shell : Stainless Steel
Finish:	Contact : 1.25 $\mu\text{m}$ gold over nickel on mating contact
	Shell : Sand blasted and passivated

## Receptacles



Part Number	No. of Contacts	Contact Type	Mates with
164-183	5	Solder Spring Loaded	164-229 164-229-S 164-182
164-183P	5	PC Tail Spring Loaded	164-182-S 164-182-L 164-182-LS
164-183-6	6	Solder Spring Loaded	164-229-6 164-229-6S 164-182-6
164-183-6P	6	PC Tail Spring Loaded	164-182-6S 164-182-6L

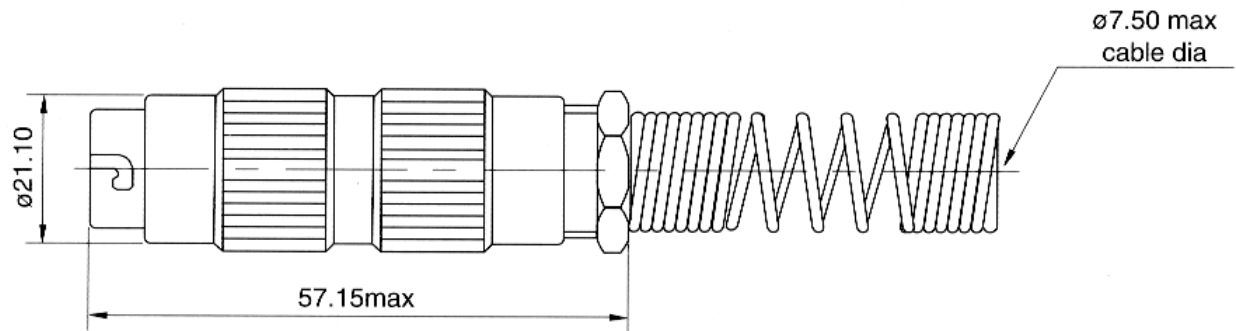
## Plugs



Part Number	No. of Contacts	Contact Type	Mates with
164-229	5	Barrel – Rigid	164-183 164-183-P
164-229-S	5	Solder – Rigid	
164-182	5	Barrel – Rigid	
164-182-S	5	Solder – Rigid	
164-182-L	5	Barrel – Rigid	
164-182-LS	5	Solder – Rigid	
164-229-6	6	Barrel – Rigid	164-183-6 164-183-6P
164-229-6S	6	Solder – Rigid	
164-182-6	6	Barrel – Rigid	
164-182-6S	6	Solder – Rigid	
164-182-6L	6	Barrel – Rigid	
164-182-6LS	6	Solder – Rigid	

Note: 1) denotes lightweight version

## Cable Receptacles



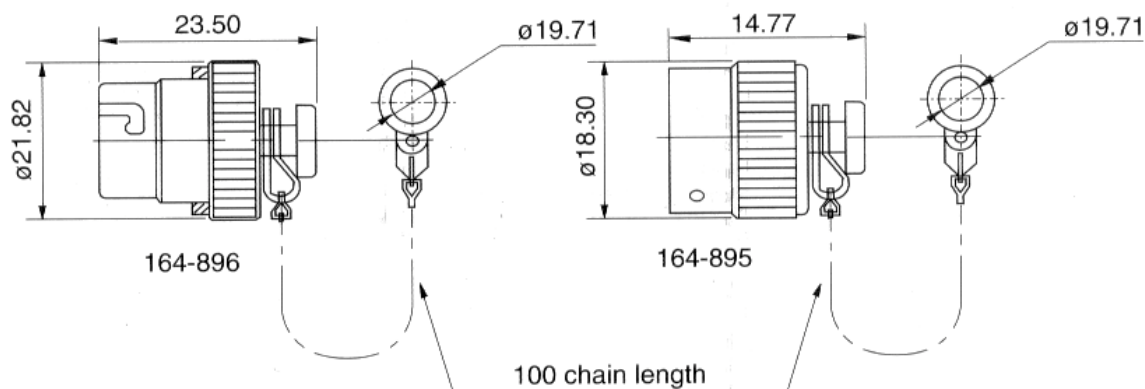
All dimensions in mm

Part Number	No. of Contacts	Contact Type	Mates with
164-228	5	Barrel Spring Loaded	164-229 164-229-S 164-182 164-182-S 164-182-L 164-182-LS
164-228-S	5	Solder Spring Loaded	
164-228-6	6	Barrel Spring Loaded	164-229-6 164-229-6S 164-182-6 164-182-6S 164-182-6L
164-228-6S	6	Solder Spring Loaded	

## Accessories

### Cap and Chain

These cap and chain assemblies are used with 5 and 6 pin connectors as protective covers giving additional protection against moisture, dust and sand. The caps are manufactured from aluminium and black anodised. The chain is manufactured from stainless steel and is passivated.

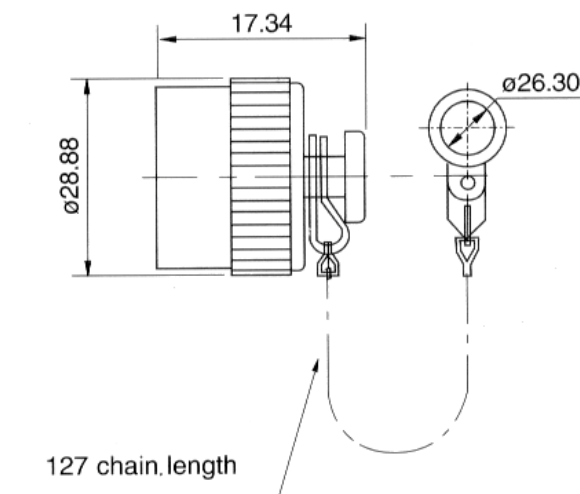


All dimensions in mm

Part Number	For Connector
164-895	164-183
164-896	164-229

### Cap and Chain

For ten pin waterproof audio receptacles (U-79/U) Part No. 164-377



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