



## HIGH POWER AND LOUDSPEAKER CONNECTORS

The SP Series are available in 2 or 4 pole chassis mount connectors. The durable thermoplastic housings are fitted with high power contacts to ensure optimal current carrying capacity. Completely intermatable with industry standard loudspeaker connections.

The EP Series incorporates a rugged zinc diecast shell to give it maximum durability when used in demanding situations. The EP cable connector cable flex relief design minimises cable bend stress at point of entry into the connector housing.

The AP Series Shell is manufactured from tough, durable thermoplastic, and ideal for fixed indoor installations. Both the EP and AP Series utilise the same contact and insulator components.

### Features

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell for the EP series.
- Cost effective durable thermoplastic shell for the AP and SP series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- SP series available in 2 and 4 contact arrangements.

- EP series cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.

- Quick release, vibration resistant latch lock.

- AP & EP series are completely intermatable.

### Options

- Solder termination / Tab or Printed Circuit Board versions
- Nickel Plated Zinc Alloy shell (EP Series)
- Black finished Zinc Alloy shell (EP Series)
- Precision machined contacts
- Thermoplastic shell (EP/SP Series)

### Ordering Codes

We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

### Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on Page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.


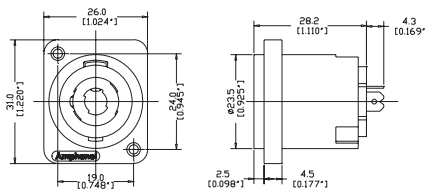

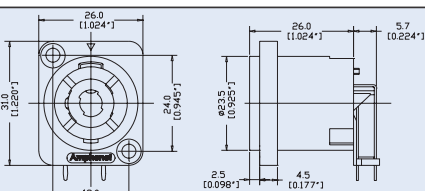

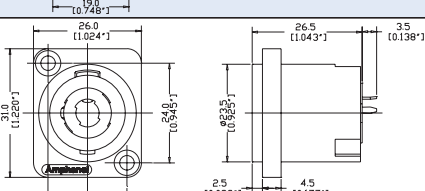

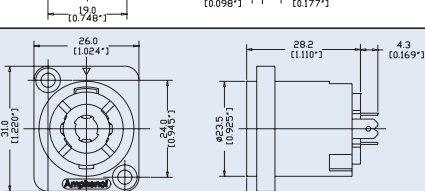

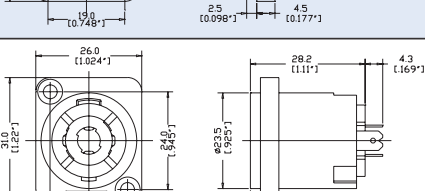

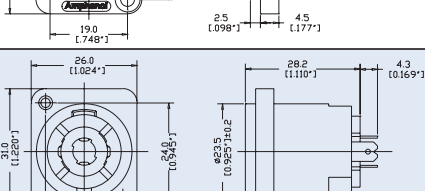


Amphenol's range of loudspeaker connectors have been further enhanced with the introduction of the SP Series. Designed to complement the popular EP/AP Series, we now offer a range of loudspeaker connectors to suit most applications. SP Series chassis connectors are available in industry standard PCB footprints with solder tabs.


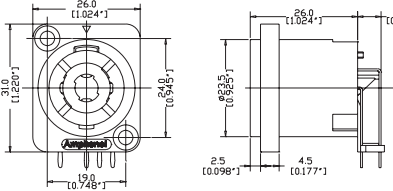

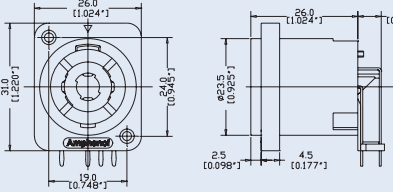

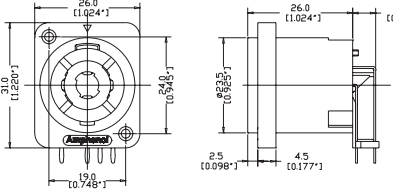

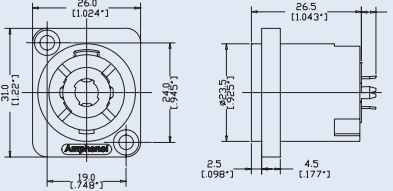
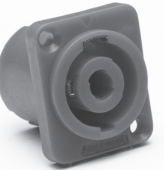
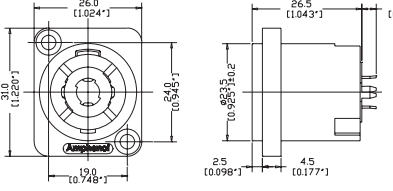

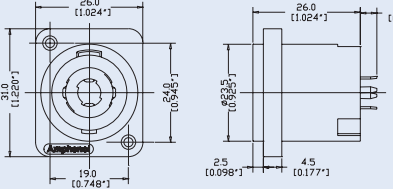
**Features:**

- 2 or 4 pole
- Solder tabs
- Vertical or Horizontal PCB contacts
- Various mounting hole options
- 30A Current rating
- Coloured Housings
- Industry standard mating

**Part Number Breakdown: Page 71      Specifications: Page 73**  
**PCB Footprints: Page 72**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
			2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
			2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
			2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
			4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
			4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
			4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
			4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
			4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
			4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
			4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
			4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
			4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8

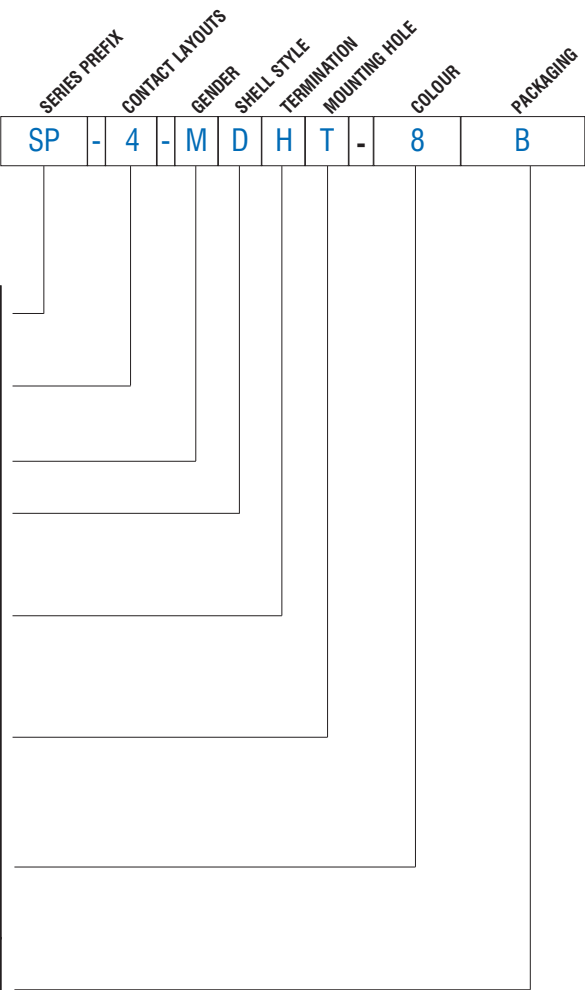


# PART NUMBER BREAKDOWN

## SP SERIES

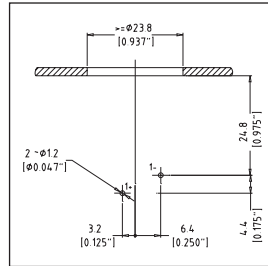
E. G . **SP-4-MDHT-8B**  
**SP** (Series Prefix), **4** contacts, **M**(Chassis Connector), **D** (D Shell), **H**orizontal Printed Circuit Board, Self **T**apping mounting holes - **8** (Grey), **B**ulk Packaged.

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	M	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	T	=	Self Tapping
CONTACT PLATING	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed

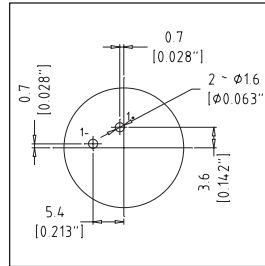


## SP SERIES

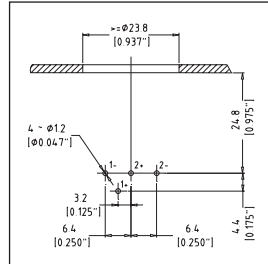
SP-2-MDH



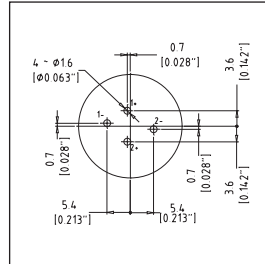
SP-2-MDV



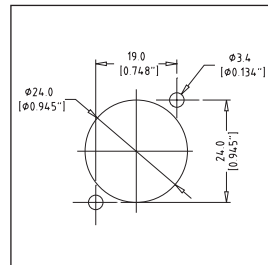
SP-4-MDH  
SP-4-MDHT-8  
SP-4-MDHT



SP-4-MDV  
SP-4-MDV-2  
SP-4-MDVT-8



SP SERIES  
PANEL CUTOUT



# STANDARD DATA SP SERIES CHASSIS CONNECTORS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	2 or 4
	Termination	Printed Circuit Board (PCB) or Solder Tabs 3/16"
	Flammability	UL94HB
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V <sup>1)</sup>
	Test Voltage AC RMS	1500V
	Current carrying capacity	30A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP54
	Operating Temperature	-25 °C to +75 °C
MECHANICAL CHARACTERISTICS	Weight**	12g (0.026lb)
	Mechanical Operations	5000 mating cycles
	Fastening	M3 screw
MATERIALS	Connector Shell	PA66 GF20
	Insulators	PA66 GF20
	Contact	Phosphor Bronze
	Material Plating	Silver

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.

<sup>1)</sup>Not suitable for domestic applications above 50V



Rev 2-12/2010