



SP/EP/AP SERIES HIGH POWER / 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.
- SP Series with overmolded cable support boot or PG gland with or without cable support strain relief.

- 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, Screw Terminals (SP Series)
- Nickel Plated Zinc Alloy shell (EP/SP Series)
- Black finished Zinc Alloy shell (EP/SP Series)
- Precision machined contacts
- Thermoplastic shell (AP/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

EP / AP / SP SERIES

SP SERIES LOUDSPEAKER CONNECTORS



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. SP Series cable plugs are available with screw or solder terminals.

Features:

- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals
- Chuck type or PG Gland cable clamp
- Various mounting hole options
- 30A Current rating
- Thermoplastic or Metal housing (Cable Plugs)
- Industry standard mating

Part Number Breakdown: Page 73/74 Specifications: Page 76 PCB Footprints: Page 75

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve	Screw	Black	SP-2-F
				Solder	Black	SP-2-FS
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland	Screw	Black	SP-2-FG
				Solder	Black	SP-2-FSG
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-2-FL
				Solder	Black	SP-2-FSL
			2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
				Solder	Nickel	SP-2-FNS
				Screw	Black	SP-2-FB
				Solder	Black	SP-2-FBS
			2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-2-FNG
				Solder	Nickel	SP-2-FNSG
				Screw	Black	SP-2-FBG
				Solder	Black	SP-2-FBSG
			2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-2-FNL
				Solder	Nickel	SP-2-FNSL
				Screw	Black	SP-2-FBL
				Solder	Black	SP-2-FBSL



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		87 [3.43"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve	Screw	Black	SP-4-F
				Solder	Black	SP-4-FS
		111 [4.36"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland	Screw	Black	SP-4-FG
				Solder	Black	SP-4-FSG
		179 [7.06"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-4-FL
				Solder	Black	SP-4-FSL
		87 [3.43"]	4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
				Solder	Nickel	SP-4-FNS
				Screw	Black	SP-4-FB
				Solder	Black	SP-4-FBS
		111 [4.36"]	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-4-FNG
				Solder	Nickel	SP-4-FNSG
				Screw	Black	SP-4-FBG
				Solder	Black	SP-4-FBSG
		179 [7.06"]	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-4-FNL
				Solder	Nickel	SP-4-FNSL
				Screw	Black	SP-4-FBL
				Solder	Black	SP-4-FBSL



Amphenol

EP / AP / SP SERIES

SP LOUDSPEAKER CONNECTORS

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.5 (1.043") 3.5 (0.138") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8



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EP / AP / SP SERIES

SP LOUDSPEAKER CONNECTORS

PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
		<p>4 pole, D flange, Self Tapping holes, Horizontal PCB</p>	<p>Black</p>	<p>SP-4-MDHT</p>
		<p>4 pole, D flange, Thru holes, Vertical PCB</p>	<p>Black</p>	<p>SP-4-MDV</p>
		<p>4 pole, D flange, Thru holes, Vertical PCB</p>	<p>Red</p>	<p>SP-4-MDV-2</p>
		<p>4 pole, D flange, Self Tapping holes, Vertical PCB</p>	<p>Grey</p>	<p>SP-4-MDVT-8</p>



PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

E. G . **SP-4-FNSG**
SP (Series Prefix), **4** contacts, **F** (Cable Connector), **N** (Metal Shell Nickel Finish),
S (Solder Terminals), **G** (PG Gland)

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	F	=	Cable Connector
SHELL FINISH	Blank	=	Thermoplastic - Black
	N	=	Metal - Nickel Finish
	B	=	Metal - Black Finish
TERMINATION	Blank	=	Screw Terminals
	S	=	Solder Terminals
BACKSHELL TYPE	Blank	=	Standard
	G	=	PG Gland
	L	=	PG Gland Strain Relief
PACKAGING BACK-SHELL COLOUR	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed



PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

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 (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"	
	Termination (Cable Plugs)	Screw or Solder Terminals	
	Flammability	UL94HB	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V ¹⁾	
	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 (-13°F to +167°F)	
MECHANICAL CHARACTERISTICS	Weight** - Chassis Connectors	12g (0.026lb)	
	Weight** - Cable Plug	- Thermoplastic	44g (0.097lb)
		- Metal	65g (0.143lb)
	Weight** - Cable Plug PG	- Thermoplastic	44g (0.097lb)
		- Metal	65g (0.143lb)
	Weight** - Cable Plug PG S/Relief	- Thermoplastic	68g (0.150lb)
		- Metal	89g (0.196lb)
	Typical Cable retention force	200N (Subject to cable material and O.D.)	
	Cable O.D range	- Chuck Clamp	9-14mm (0.35" - 0.55")
		- PG16 Gland	8-14mm (0.31" - 0.55")
- PG16 Gland S/Relief		10-14mm (0.39" - 0.55")	
Mechanical Operations	5000		
Fastening (Chassis Self Tapping)	M3 screw		
MATERIALS	Connector Shell / Finish		
	- Chassis	PA66 GF20 / Black	
	- Cable Plug Thermoplastic	PA66 GF30 / Black	
	- Cable Plug Metal	Diecast Zinc Alloy / Nickel or Black	
	Insulators		
	- Chassis	PA66 GF20	
	- Cable Plugs	PA66 GF30	
	Cable Boot / Backshell	Santoprene / PA6 GF 15	
Cable Clamp (Chuck)	P.O.M		
Cable Clamp (PG)	Polyamide / EPDM		
Sleeve	PA6 15GF		
Contact Chassis			
- Material / Plating	Phosphor Bronze / Silver		
Contact Cable Plug			
- Material / Plating	Brass / Silver		

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

¹⁾Not suitable for domestic applications above 50V

Rev 3-11/2011

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А