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:

- Quick release, vibration resistant latch lock
- 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)
- UL, cUL recognized components (File no. E339831)
- Industry standard mating



Part Number Breakdown: Page 63 **Specifications: Page 67 PCB Footprints: Page 65 Assembly Instructions: 66**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		87 [3.43"]	2 pole, Cable connector, Thermoplastic shell,	Black	SP-2-F	
	6.28 [1.10°]		Blue sleeve	Solder	Black	SP-2-FS
		2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FG	
	0.028	[4,36"]	Blue sleeve, PG Gland	Solder	Black	SP-2-FSG
On-	179	179 [7 06"]	2 pole, Cable connector,	Screw	Black	SP-2-FL
The state of the s	11011	17 06-1	Thermoplastic shell,	Solder	Black	SP-2-FSL
	87 [3.43"]	2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN	
			Wicker Short, Dide Stocke	Solder	Nickel	SP-2-FNS
			Screw	Black	SP-2-FB	
	φ <u>1.</u>			Solder Black SP-2-FBS	SP-2-FBS	
	ļ -	111	2 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-2-FNG
	87	PG Gland	Solder	Nickel	SP-2-FNSG	
			Screw	Black	SP-2-FBG	
			Solder	Black	SP-2-FBSG	
CHARLES E.	179 1706-1	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	



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SP LOUDSPEAKER CONNECTORS

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
	-	[3.43"]	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-F
100	φ28 [1.10"]			Solder	Black	SP-4-FS
		4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FG	
	0.28 [1.09·1]	[4 36"]	Thermoplastic black shell, Blue sleeve, PG Gland	Solder	Black	SP-4-FSG
0			4 pole, Cable connector,	Screw Black	SP-4-FL	
Same Control	10.11 10.11 10.11	779 77061	Thermoplastic black	Black	SP-4-FSL	
	87 [3.43"]	4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN	
		[3.43]	ivietai siieli, bide sieeve	Solder	Nickel	SP-4-FNS
			Screw	Black	SP-4-FB	
	(1.10°1)			Solder	Solder Black SP-4-FBS	SP-4-FBS
		_ 111 [4.36"]	4 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-4-FNG
	(4 36") 82 60 9 11	PG Gland	Solder Nic	Nickel	SP-4-FNSG	
			Screw	Black	SP-4-FBG	
			Solder	Black	SP-4-FBSG	
Call Control of the C		170	4 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-4-FNL
	1706°1	PG Gland strain relief	Solder	Nickel	SP-4-FNSL	
				Screw	Black	SP-4-FBL
			Solder	Black	SP-4-FBSL	

(EP) AP)

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PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.2 (1.110°1) (0.169°1) (0.169°1) (0.177°1)	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
	0.0940 0.0940 0.0940 0.0940	260 (1024') (1024') (1024')	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
	266.0 (1,024.1) (1,024.1) (1,024.1) (1,034.1) (1,034.1)	265 35 (0.138°) (0.13	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
	26.0 (1)024']	282 (1110'1) (110'1) (110'1) (110'1) (110'1) (110'1)	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
	260 (1024)	282 43 (1.11') 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
	26.0 (1)024.1	282 4.3 (1.10°) (0.169°)	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT
	260 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1 11024'1	1024·1 (024·1)	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
	26.0 11.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241	1024·1 10	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8



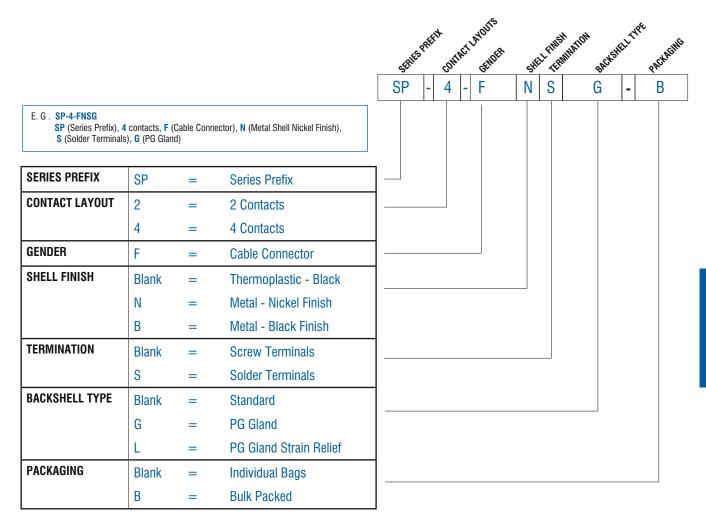
SP LOUDSPEAKER CONNECTORS

PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
	260 (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024')	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
	26.0 [1024'] 26.5 [1043'] (138') (138')	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
	265 (1043') (0138') (0177') (0177')	4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
	26.0 (1.024') 26.0 (1.024') (0.157')	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
0	508 (se ²) Amphenol 4-38 (sl3 ²) 25 (698) 25 (698) 27 (177)	4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC

SP LOUDSPEAKER CONNECTORS

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS





PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

MOUNTHE HOLE **TERMINATION** SP 8 В E. G. SP-4-MDHT-8B SP (Series Prefix),4 contacts, M(Chassis Connector), D (D Shell), Horizontal Printed Circuit Board, Self Tapping mounting holes - 8 (Grey), Bulk 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 **EP Series Circular flange** C **TERMINATION** Blank Solder tabs - 3/16" terminals ٧ **Vertical Printed Circuit Board** Н Horizontal Printed Circuit Board **MOUNTING HOLE** Blank =Thru Hole Т **Self Tapping** Blank Black **SHELL COLOUR** 2 Red 8 Grey **PACKAGING** Blank Individual Bags В **Bulk Packed**

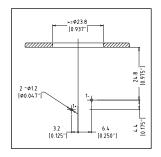


SP LOUDSPEAKER CONNECTORS

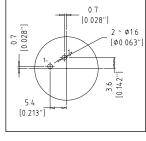
SP SERIES

SP-2-MDH

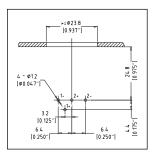
Amphenol



SP-2-MDV



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

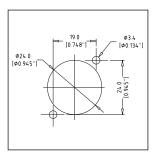


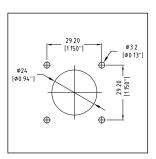
4 - 016 [0 028"] 9 E [0 028"] 9

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

SP SERIES PANEL CUTOUT

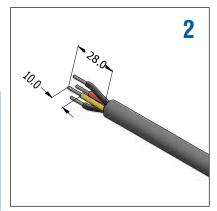
SP-2-MD**_* SP-4-MD**_*





1

Slide the nut onto the cable



Strip the cable and twist the conductors.



Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a flat screwdriver with tip width of 2.5mm max.

SP LOUDSPEAKER CONNECTORS

PI 1070 ASSEMBLY INSTRUCTIONS

SP SERIES CABLE CONNECTOR



Install the cable clamp, flush to the insert making sure to align the slot as shown in the picture.



Orientate the insert and cable clamp as shown then push all together into the shell.



Thread the nut onto the shell to activate the cable clamp and close the connector assembly.



STANDARD DATA SP SERIES CONNECTORS

		VALUE		
GENERAL	Number of contacts	2 or 4		
CHARACTERISTICS	Termination (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"		
	Termination (Cable Plugs)	Screw or Solder Terminals	-	
	Flammability	UL94HB		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
ELECTRICAL	Service Voltage RMS	133V ¹⁾		
CHARACTERISTICS	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	Protection Class	IP54		
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)		
MECHANICAL	Weight** - Chassis Connectors	12g (0.026lb)		
CHARACTERISTICS	Weight** - Cable Plug - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	68g (0.150lb) 89g (0.196lb)		
	Typical Cable retention force	200N (Subject to cable material and O.D.)		
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	2 pole 4 pole 5-10mm (0.19" - 0.39") 9-14mm (0.35" - 0.55") 6-12mm (0.23" - 0.47") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55") 9-14mm (0.35" - 0.55")		
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm² - 4mm² (AWG16 - AWG12) 1.5mm² - 6mm² (AWG16 - AWG10)		
MATERIALS	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black		
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30		
	Cable Boot / Backshell			
	Cable Clamp (Chuck)	P.O.M		
	Cable Clamp (PG)	Polyemide / EPDM		
	Sleeve	PBT		
Contact Chassis - Material / Plating Contact Cable Plug		Phosphor Bronze / Silver		
	- Material / Plating	Brass / Silver		

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

Not suitable for domestic applications above 50V

