

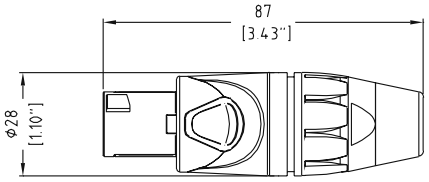
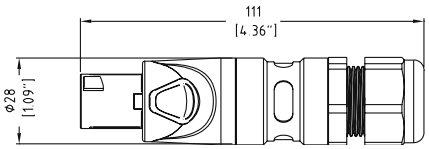
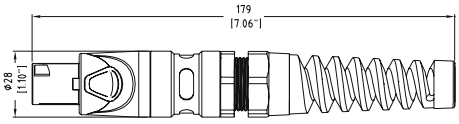
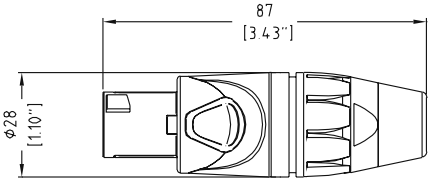
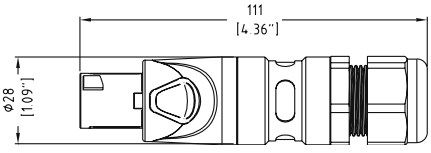
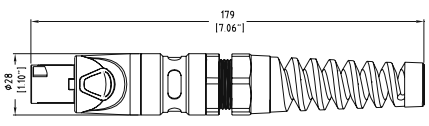
SP SERIES

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:

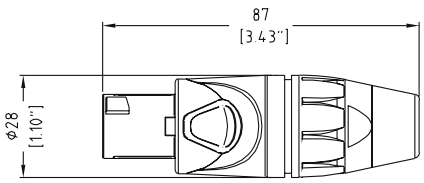
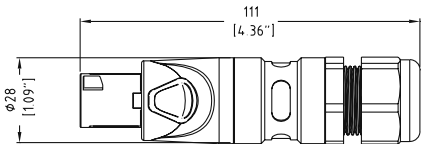
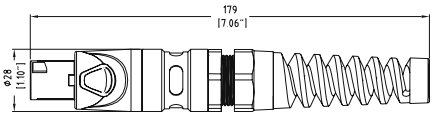
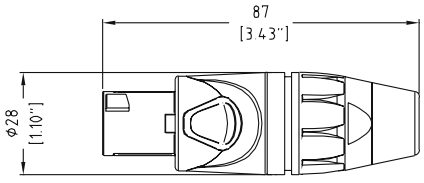
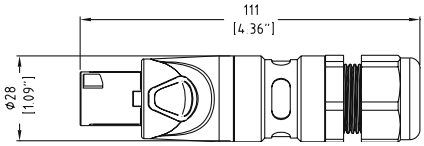
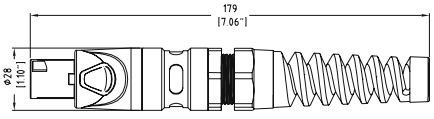
- Quick release, vibration resistant latch lock
- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals
- Chuck type or PG Gland cable clamp
- Various mounting hole options
- 20A Current rating
- Thermoplastic or Metal housing (Cable Plugs)
- UL, cUL recognized components (File no. E339831)
- Industry standard mating

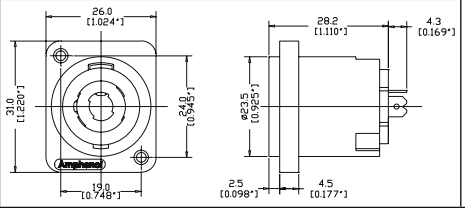
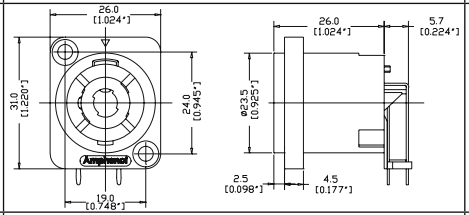
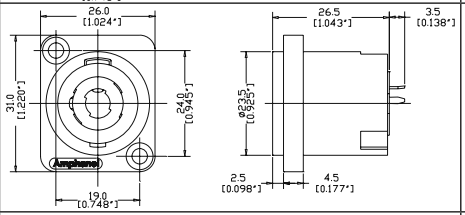
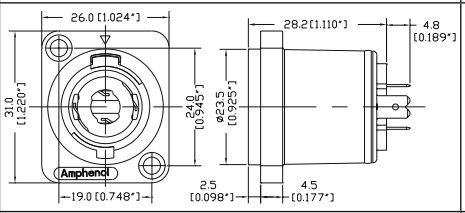
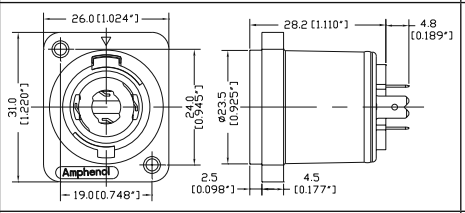
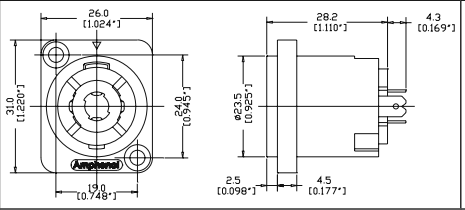
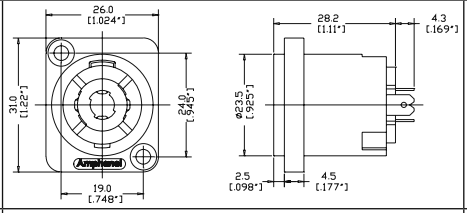
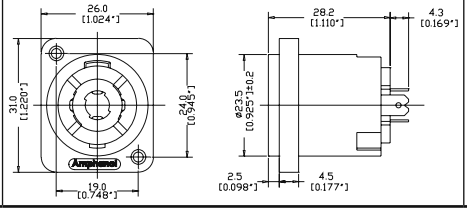
Part Number Breakdown: Page 75
PCB Footprints: Page 77
Specifications: Page 79
Assembly Instructions: 78

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
			Torx	Black	SP-2-FTX
			Solder	Black	SP-2-FS
		2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland	Screw	Black	SP-2-FG
			Torx	Black	SP-2-FGTX
			Solder	Black	SP-2-FSG
		2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-2-FL
			Torx	Black	SP-2-FLTX
			Solder	Black	SP-2-FSL
		2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
			Torx	Nickel	SP-2-FNTX
			Solder	Nickel	SP-2-FNS
			Screw	Black	SP-2-FB
			Torx	Black	SP-2-FBTX
			Solder	Black	SP-2-FBS
		2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-2-FNG
			Torx	Nickel	SP-2-FNGTX
			Solder	Nickel	SP-2-FNSG
			Screw	Black	SP-2-FBG
			Torx	Black	SP-2-FBGTX
			Solder	Black	SP-2-FBSG
		2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-2-FNL
			Torx	Nickel	SP-2-FNLTX
			Solder	Nickel	SP-2-FNSL
			Screw	Black	SP-2-FBL
			Torx	Black	SP-2-FBLTX
			Solder	Black	SP-2-FBSL

Speaker Connectors

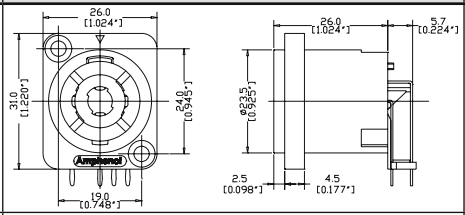
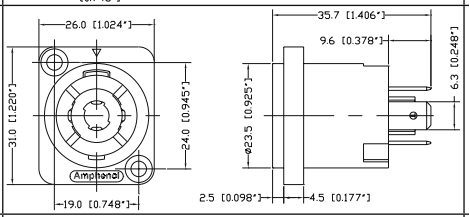
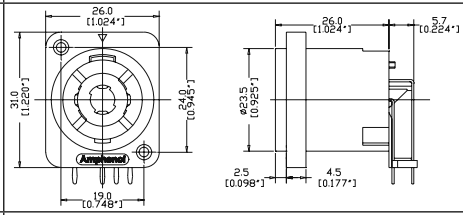
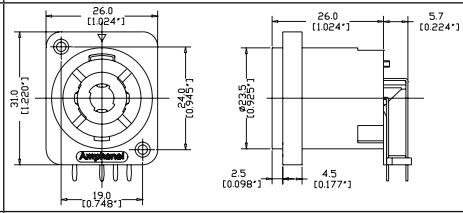
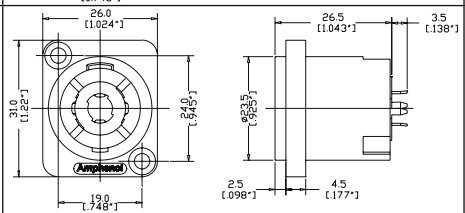
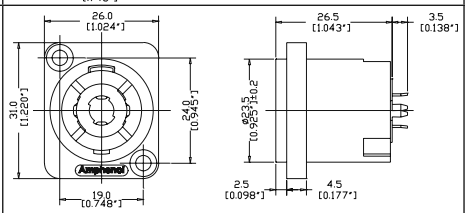
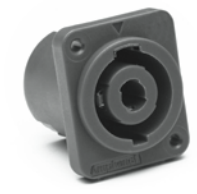
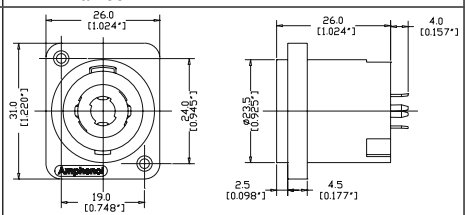
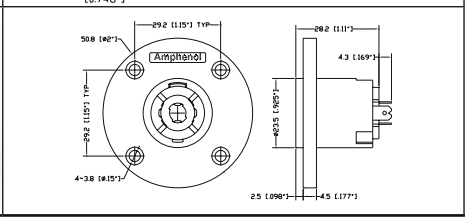
SP Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve	Screw	Black	SP-4-F
			Torx	Black	SP-4-FTX
			Solder	Black	SP-4-FS
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland	Screw	Black	SP-4-FG
			Torx	Black	SP-4-FGTX
			Solder	Black	SP-4-FSG
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-4-FL
			Torx	Black	SP-4-FLTX
			Solder	Black	SP-4-FSL
		4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
			Torx	Nickel	SP-4-FNTX
			Solder	Nickel	SP-4-FNS
			Screw	Black	SP-4-FB
			Torx	Black	SP-4-FBTX
			Solder	Black	SP-4-FBS
		4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-4-FNG
			Torx	Nickel	SP-4-FNGTX
			Solder	Nickel	SP-4-FNSG
			Screw	Black	SP-4-FBG
			Torx	Black	SP-4-FBGTX
			Solder	Black	SP-4-FBSG
		4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-4-FNL
			Torx	Nickel	SP-4-FNLTX
			Solder	Nickel	SP-4-FNSL
			Screw	Black	SP-4-FBL
			Torx	Black	SP-4-FBLTX
			Solder	Black	SP-4-FBSL

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	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
		Airtight 4 pole, D flange Self Tapping holes, Solder Tabs 3.16”	Black	SP-4-MDAT
		Airtight 4 pole, D flange Thru holes, Solder tabs 3/16”	Black	SP-4-MDA
		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

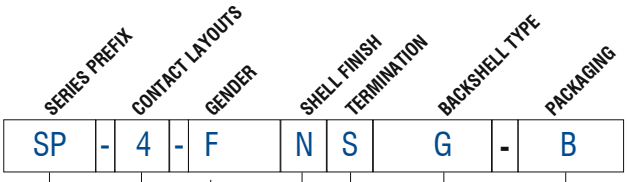
Speaker Connectors

SP Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
		4 pole, D flange, Thru holes, Solder tabs ¼”	Black	SP-4-MDQ
		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
		4 pole, EP flange, Thru holes, Solder tabs 3/16”	Black	SP-4-MC

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

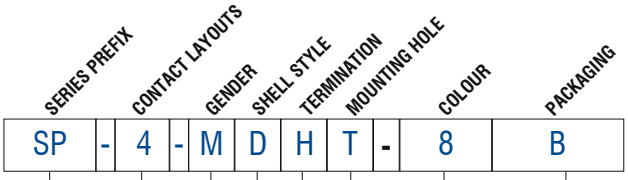


E. G . **SP-4-FNSG**
SP (Series Prefix), **4** contacts, **F** (Cable Connector), **N** (Metal Shell Nickel Finish), **S** (Solder Terminals), **G** (PG Gland)

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
SCREW TYPE	Blank	=	Slotted
	TX	=	Torx T8
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed
	B1	=	Supplied with small and large cable clamps

PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

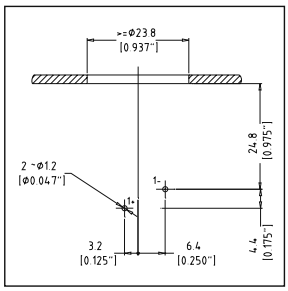


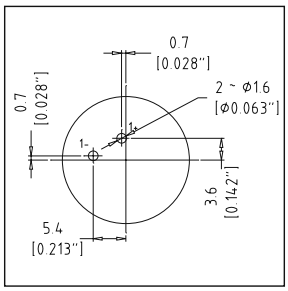
E. G . **SP-4-MDHT-8B**
SP (Series Prefix),**4** contacts, **M**(Chassis Connector), **D** (D Shell), **H**orizontal Printed Circuit Board, Self Tapping mounting holes - **8** (Grey), **B**ulk Packaged.

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	M	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
	C	=	EP Series Circular flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	Q	=	Solder tabs - 1/4" terminals
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	T	=	Self Tapping
SHELL COLOUR	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed

SP SERIES

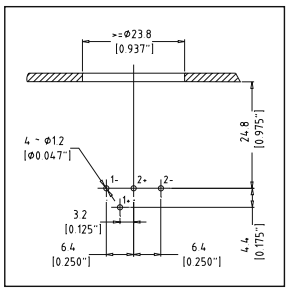
SP-2-MDH

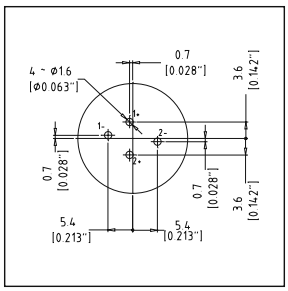




SP-2-MDV

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

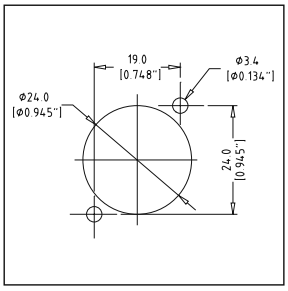


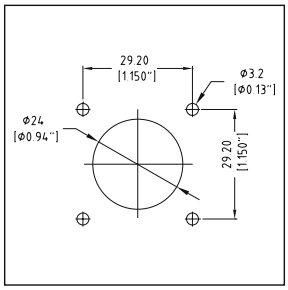


SP-4-MDV
SP-4-MDV-2
SP-4-MDVT-8

SP SERIES PANEL CUTOUT

SP-2-MD_*
SP-4-MD_*





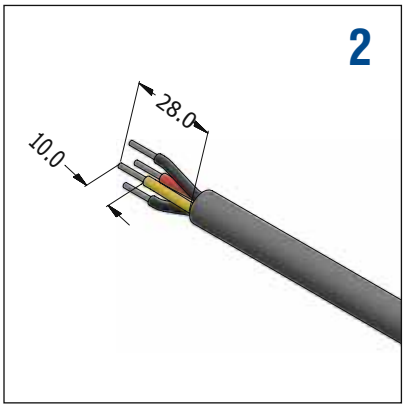
SP-4-MC

PI 1070 ASSEMBLY INSTRUCTIONS

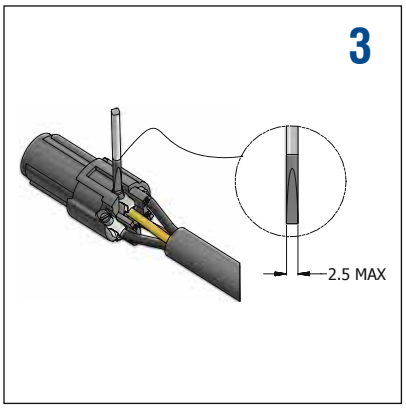
SP SERIES CABLE CONNECTOR



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.



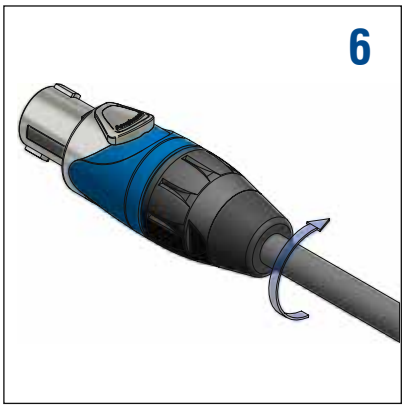
Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a T8 Torx screwdriver.



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.