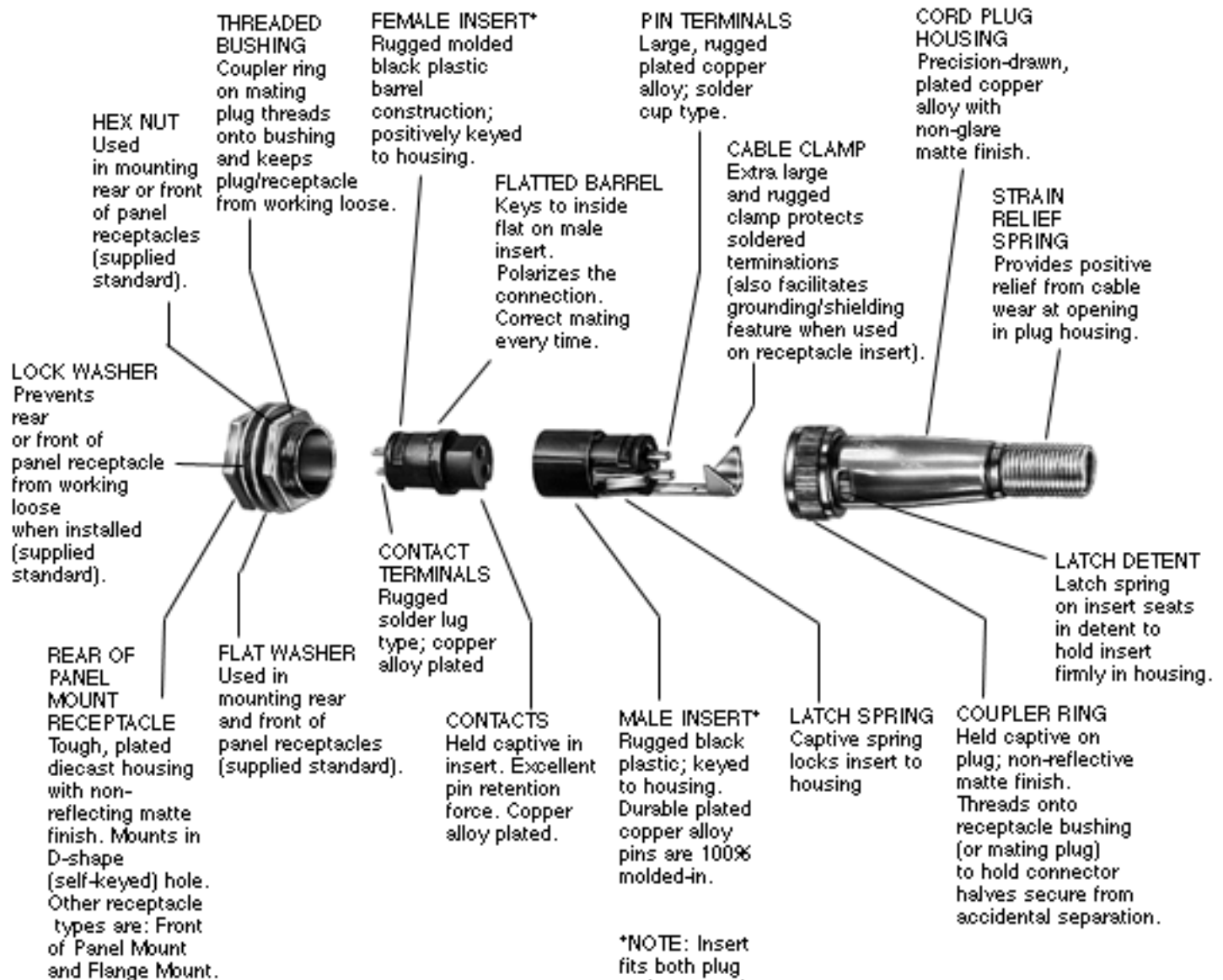


Switchcraft®

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TYPICAL SL172F REAR MOUNT RECEPTACLE

TYPICAL SL402M CORD PLUG



SLIM-LINE CONNECTORS

[click here to download a schematic drawing](#)

(you will need to have Adobe Acrobat installed on your system to do this)



DESIGN FEATURES

Slim-Line® Audio Connectors are a unique series of premium quality connectors featuring interchangeable inserts which allow any plug or receptacle to be male or female. This versatility is valuable in a wide variety of applications: microphones, public address systems, 2-way, CB, ham, and marine radios, audio-visual systems, industrial control and instrumentation, broadcast, security and medical electronics.

APPLICATIONS

Retrofit/Replacement; Slim Line Cord Plug (**SL405M**) and Receptacle (**SL105F**) are recommended as a possible choice to replace Switchcraft/DIN plug (**12CL5M**) and receptacle (**55HA5F**). Receptacle **SL105F** fits the same mounting holes as the Switchcraft/DIN receptacle.

Four pin/contact Slim-Line plugs and receptacles are recommended as direct replacements for the original Slim-Line connectors, Series **2504**, and for the molded version of the Slim-Line connector, **Style ST34**.

RECEPTACLES

Three types of receptacles can be specified:

- 1. Flange mount (Series SL10)**
- 2. Rear of panel mount (Series SL17)**

Receptacles can be specified with same male and female insert combinations as cord plugs. For rear and front of panel mounting types, hex nuts, lock washers, and flat washers are supplied. For flange mount receptacles, mounting holes in flange accept #4 machine screw or .125 inch (3.18 mm) diameter rivet.

CORD PLUGS

Miniature Cord Plugs feature nickel-plated copper alloy housings with matte finish on exterior parts. Plugs may be specified with inserts having 2-, 3-, 4- and 5-pins (male) or contacts (female), or 2-, 3-, or 4-contact receptacles having shunts (N.C.) on two contacts (special order only). Extra large cable clamp protects against pulling and twisting strains on terminations. Strain relief spring protects against excess cable wear at entry point at rear of housing. Cord plugs accept cables up to .281 inch (7.14 mm) diameter. Captive coupler ring feature (**Series SL40**) provides secure mechanical connection and protection against shock and vibration between cord plugs and mating plug (**Series SL41**) or receptacle.

INSERTS

Inserts are molded of high-strength plastic, and are completely interchangeable between plug and receptacle housings at any time. Inserts are keyed to housings, and male and female inserts are polarized to prevent mismating.

PIN-CONTACT CONFIGURATIONS

Pins	Contacts	Contacts (Shunts)
2	2	2 (N.C. Shunt on each contact)
3	3	3 (N.C. Shunts on contacts 1 and 3)
4	4	4 (N.C. Shunts on contacts 1 and 4)
5	5	-

☒ Add an "S" to end of part number for shunts. Special order only.

Insert is installed from front, and the captive latch spring locks insert to housing. To remove insert from receptacle, depress latch spring and apply pressure to rear of insert (**DO NOT APPLY PRESSURE TO TERMINALS**). On cord plugs, depress latch spring and press in on strain relief to free the insert.

GROUNDING/SHIELDING

Housings shield internal connections and provide ground (common) connections without using a pin/contact. On cord plugs, ground lead (or shield) is connected to cable clamp. For receptacles Cable Clamp, **SL04** is ordered separately as a special and installed. If desired, ground/shield connection may then be made to clamp. When mated, a continuous, shielded, low resistance path is made through the connector.

SPECIFICATIONS

MATERIALS

Receptacle Housings: Die-cast zinc, nickel-plated.

Cord Plug Housings: Copper alloy, nickel-plated.

Inserts: Glass-reinforced thermoplastic. UL 94 V-0.

Female Contacts: Copper alloy, silver-plated, solder lug type.

Pins: Copper alloy, silver-plated, solder cup type.

Cable Clamp, Strain Relief, and Mounting Hardware: Steel, plated.

Latch: Steel, plated.

ELECTRICAL

Current Rating: 5 Amps carry only.

MOUNTING

Cord Plugs: Plugs accept cables up to .281 inch (7.14 mm) diameter.

Receptacles: Flange mount type mounts in panels or chassis up to .188 inches (4.78 mm) thick. .125 inch (3.18 mm) diameter holes accept #4 machine screws or .125 inch (3.18 mm) diameter rivets. Rear and front of panel types mount in "D"-shaped hole in panels or chassis up to .219 inches (5.56 mm) thick. Hex nut (**SL01**), lockwasher (**SL02**), and flat washer (**SL03**) are supplied for mounting.

CABLE CLAMP AND STRAIN RELIEF

Cord Plugs: Plugs are supplied with rugged cable clamps and strain relief springs. Cable clamp serves two valuable functions: to firmly hold cable to prevent pulling or twisting strains on soldered terminations, and as a connecting point for ground (common) or shield when grounding/shielding through the connector is required.

Receptacles: Receptacles are not supplied standard with cable clamp for strain relief. If

grounding/shielding feature is desired, separate Cable Clamp, **SL04**, is installed on receptacle insert.

MOUNTING HARDWARE

(Supplied with Series SL17 and SL18 receptacles)

Part Number	Item
∅SL01	Hex Nut
∅SL02	Lockwasher
∅SL03	Flat Washer
∅SL04	Cable Clamp
∅SL05	Strain Relief Spring

SLIM-LINE CONNECTOR PART NUMBERING SYSTEM

Series	Housing Type		Number of Contacts	Gender		Options
SL SLIM-LINE	-	NONE	2	M	MALE	S WITH SHUNTS
	10	RECEPTACLE, FLANGE MOUNT	3	F	FEMALE	
	17	RECEPTACLE, REAR MOUNT	4			
	18	RECEPTACLE, FRONT MOUNT	5			
	40	CORD PLUG WITH COUPLING RING				
	41	CORD PLUG WITHOUT COUPLING RING				

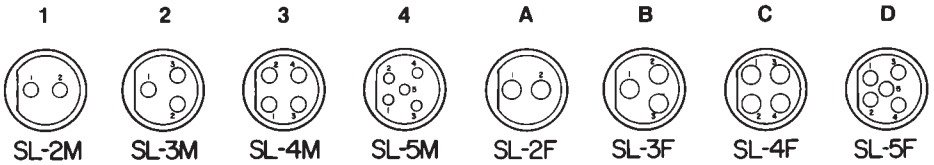
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SLIM-LINE CONNECTORS

PIN AND CONTACT ARRANGEMENTS



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