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## SLIM-LINE CONNECTORS

TYPICAL SL172F REAR MOUNT RECEPTACLE

**HEX NUT**  
Used in mounting rear or front of panel receptacles (supplied standard).

**THREADED BUSHING**  
Coupler ring on mating plug threads onto bushing and keeps plug/receptacle from working loose.

**FEMALE INSERT\***  
Rugged molded black plastic barrel construction; positively keyed to housing.

**FLATTED BARREL**  
Keys to inside flat on male insert. Polarizes the connection. Correct mating every time.

**PIN TERMINALS**  
Large, rugged plated copper alloy; solder cup type.

**CABLE CLAMP**  
Extra large and rugged clamp protects soldered terminations (also facilitates grounding/shielding feature when used on receptacle insert).

**CORD PLUG HOUSING**  
Precision-drawn, plated copper alloy with non-glare matte finish.

**STRAIN RELIEF SPRING**  
Provides positive relief from cable wear at opening in plug housing.

**LOCK WASHER**  
Prevents rear or front of panel receptacle from working loose when installed (supplied standard).

**REAR OF PANEL MOUNT RECEPTACLE**  
Tough, plated diecast housing with non-reflecting matte finish. Mounts in D-shape (self-keyed) hole. Other receptacle types are: Front of Panel Mount and Flange Mount.

**FLAT WASHER**  
Used in mounting rear and front of panel receptacles (supplied standard).

**CONTACT TERMINALS**  
Rugged solder lug type; copper alloy plated

**CONTACTS**  
Held captive in insert. Excellent pin retention force. Copper alloy plated.

**MALE INSERT\***  
Rugged black plastic; keyed to housing. Durable plated copper alloy pins are 100% molded-in.

\*NOTE: Insert fits both plug and receptacle housings; can be interchanged at any time.

**LATCH SPRING**  
Captive spring locks insert to housing

**COUPLER RING**  
Held captive on plug; non-reflective matte finish. Threads onto receptacle bushing (or mating plug) to hold connector halves secure from accidental separation.

**LATCH DETENT**  
Latch spring on insert seats in detent to hold insert firmly in housing.

## 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" (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" (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.

DIMENSIONS ARE FOR REFERENCE ONLY Inch  
(mm)