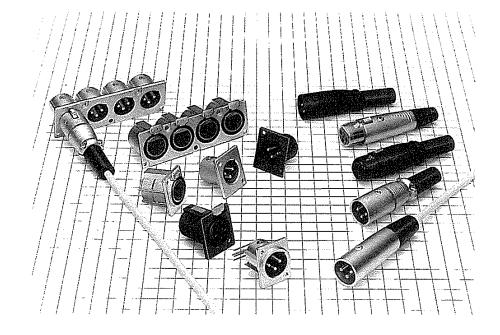
HA SERIES AUDIO CONNECTORS-MODELS HA16 · HA216 · HA316 CONNECTORS

Introduction

The HA16 series are acoustic circular latch-lock connectors designed for use mainly with microphones, microphone mixers, and other broadcasting equipment.

Having a ground function, the HA16 series not only prevent external noise but also give a feeling of integration with your equipment due to their simple, refined design.



Features

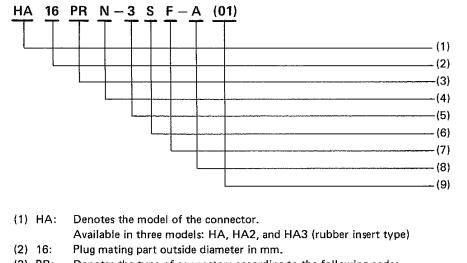
- (1) For your choice according to your equipment, two types of plug-side connectors are available; the HA16 streamlined with a simple, refined design and inside cable-clamping mechanism, and the HA216 and HA316 designed to be two screws with an exposed cableclamping mechanism.
- (2) To meet the needs of miniature equipment, the receptacle-side connectors are available in four sizes to fit your equipment. Three-pin models are available in four strip terminals to give you a wide choice.
- (3) The lock release levers in the plug receptacle come in two types: the push-pull type and the easier-to-operate lever pushdown type. This allows you to select the type that meets your application needs.
- (4) The receptacle side connectors are available in soldered and board dip types. The board dip type can be mounted from inside, enabling further labor-saving in terminating work.
- (5) An ultra-high-fidelity version is available, using terminals made from 6N high-purity oxygen-free copper.
- (6) The ultra-high-fidelity plugs and jacks are marked in red or white for easy identification of the right and left leads.

Specifications

Part	Material .	Finish
Shell	Aluminium- or zinc-alloy	Satin-finished nickel or black chro
Insulation	Polyamide resin, PBT resin, or synthetic rubber	Grey or black
Male terminal	Copper alloy	Silver or gold-plated
Female terminal	Copper alloy	Silver or gold-plated

Remark: Synthetic rubber is used to HA316 only.

Ordering Information



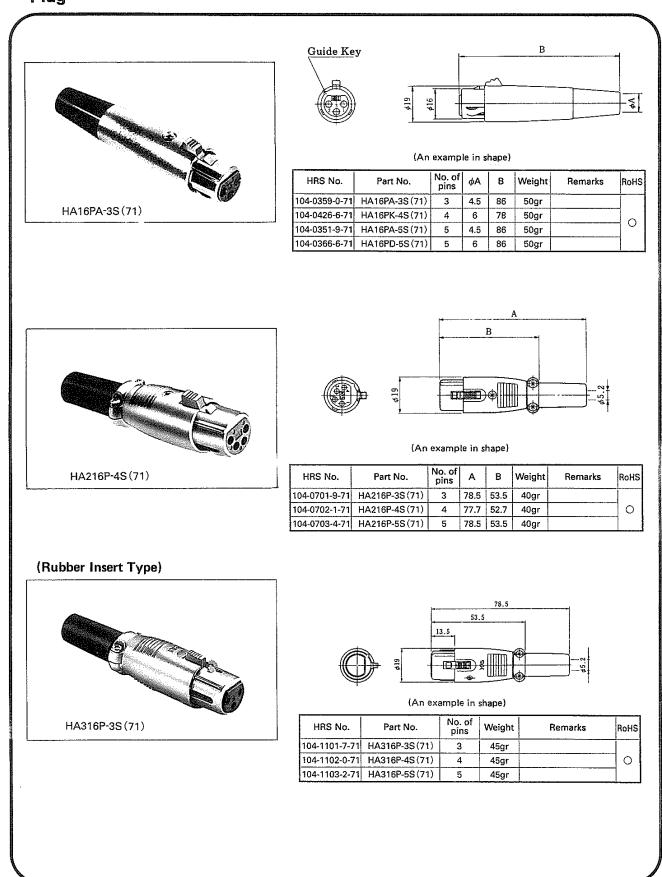
(3) PR: Denotes the type of connectors according to the following code:

- P:
 Plug
 R:
 Receptacle

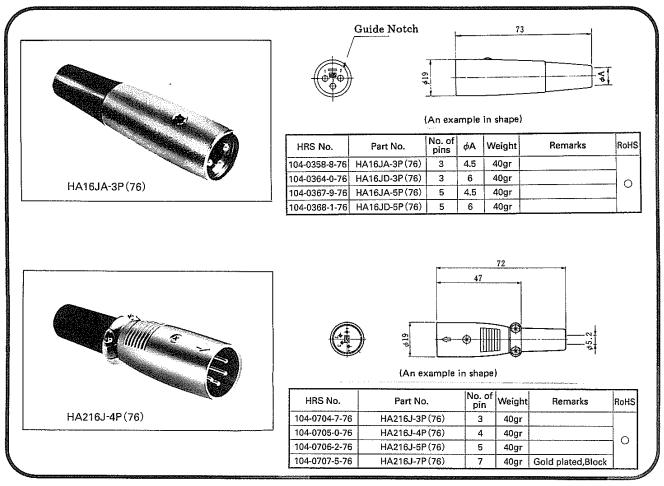
 PR:
 Plug receptacle
 J :
 Jack
- P(PM): Pin mold
- (4) N: Indicates the variety of the shell. A type with two or more varieties is identified by A, B, D, E,
- (5) 3: Indicates the number of contacts.
- (6) P: Indicates the type of terminal according to the following:
 - P: Male S: Female
- (7) F: Classifies the terminal connection system or the type of terminal by alphabetic characters.
 H: A high sound quality version with terminals made from 6N high-purity oxygen-free copper.
- (8) A: Represents a combination of connector blocks on a strip terminal.
- (9) Other: Any change to these specification will be indicated two-digit numeric suffix (01), (02),



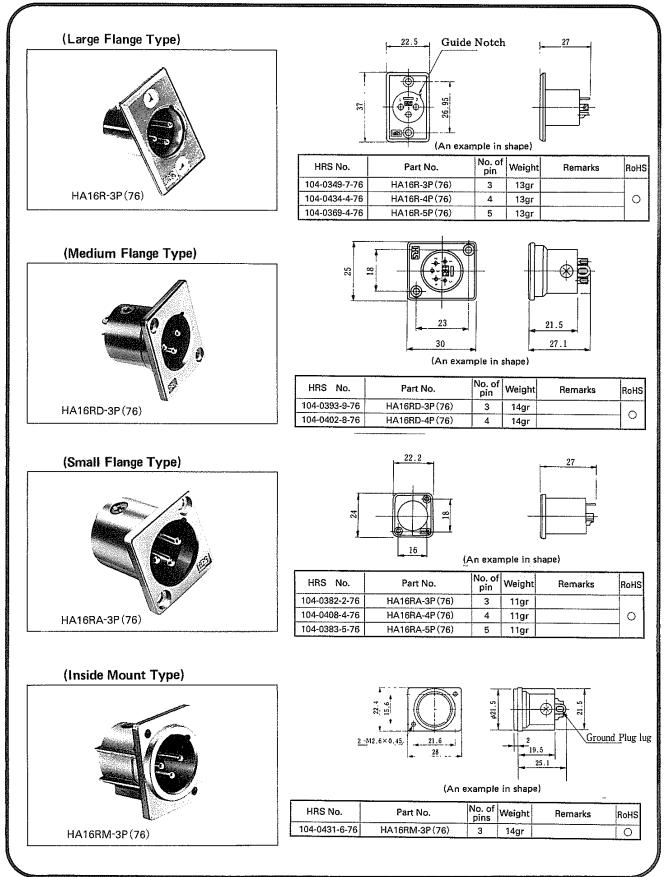
Plug



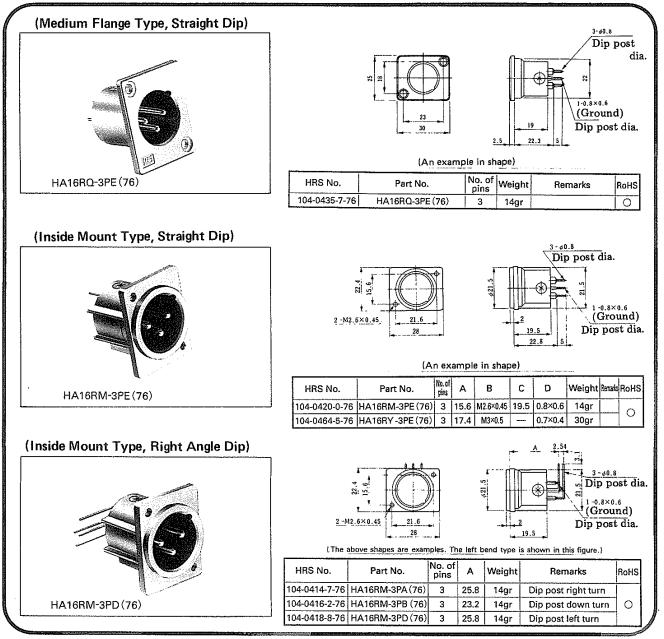




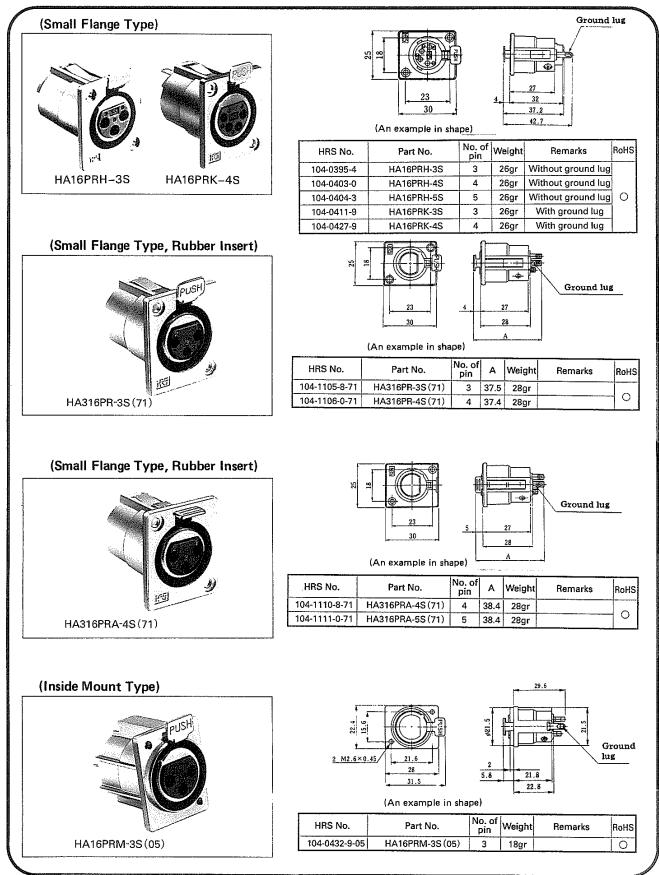
Receptacle (Solder Type)

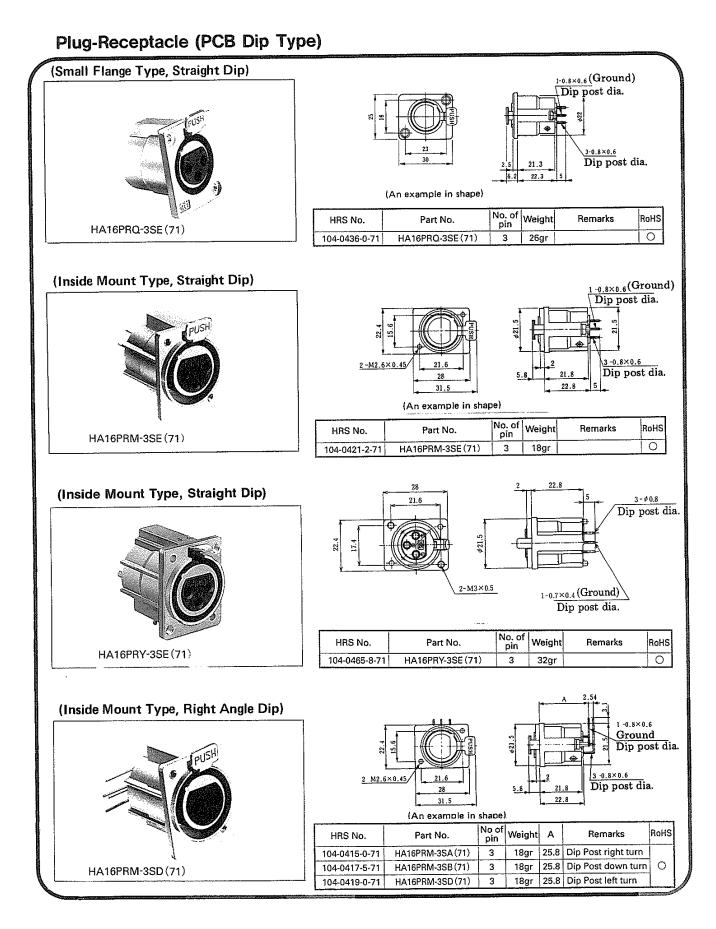


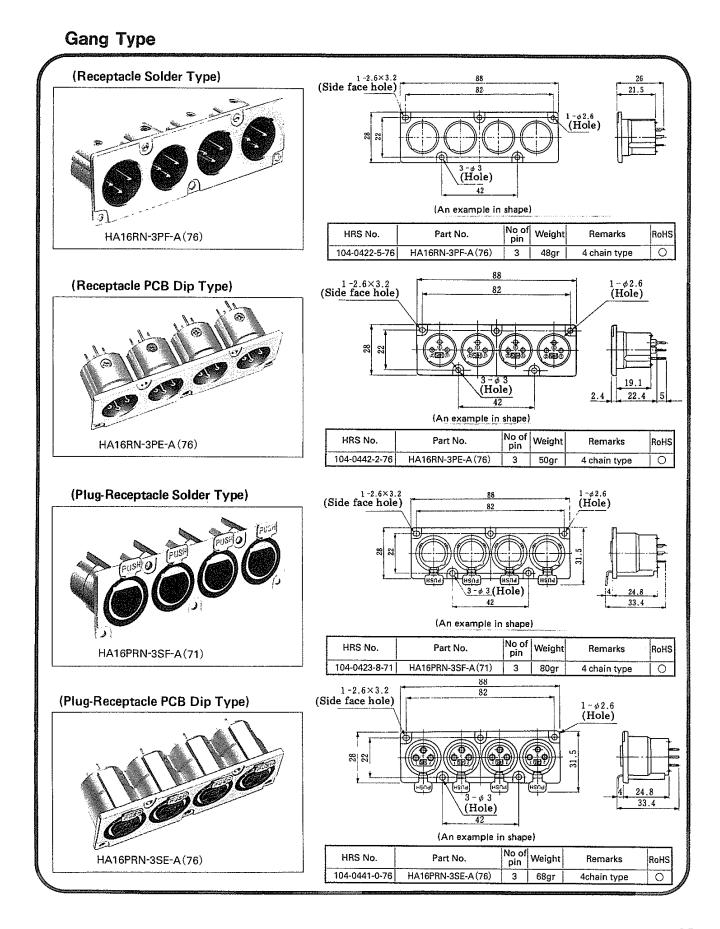
Receptacle (PCB Dip Type)



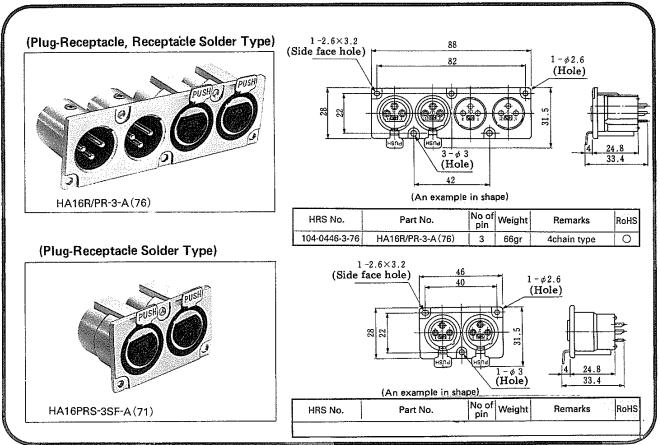
Plug-Receptacle (Solder Type)



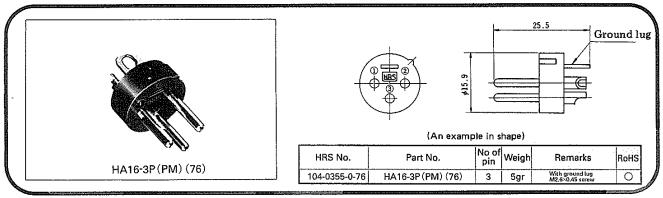


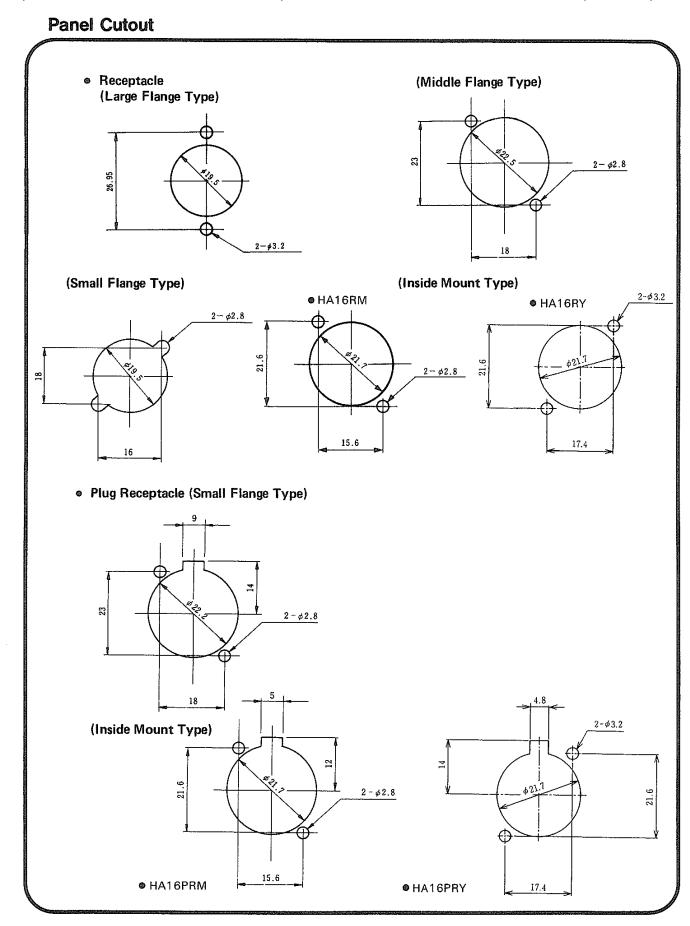


Gang Type

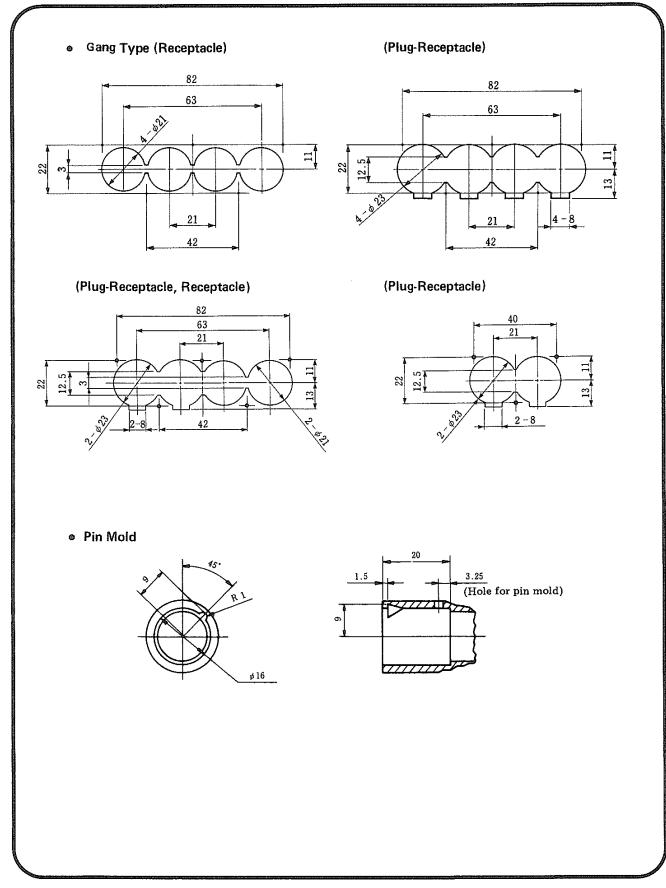


Pin Mold



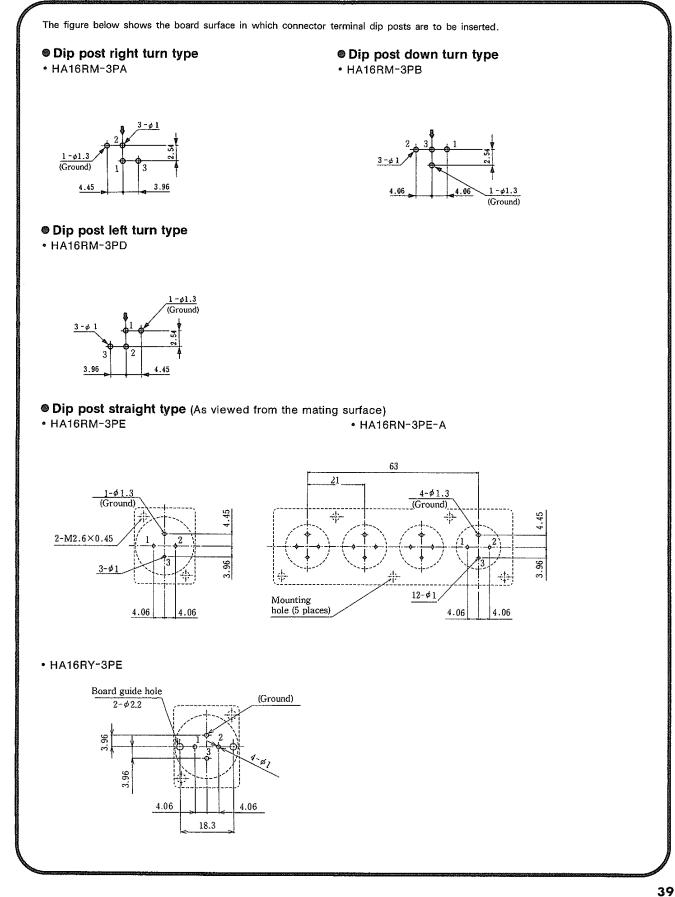


Panel Cutout



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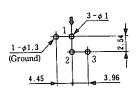




Dip Post Layout

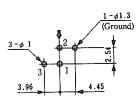
Dip post right turn type

• HA16PRM-3SA(05)



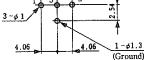
Dip post left turn type

• HA16PRM-3SD(05)

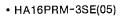


Dip post down turn type

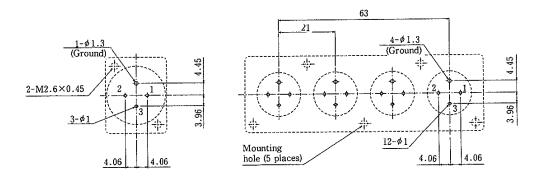
• HA16PRM-3SB(05)



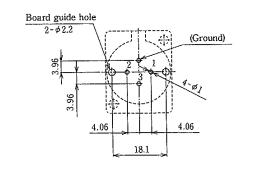
• Dip post straight type (As viewed from the mating surface)



• HA16PRN-3SE-A

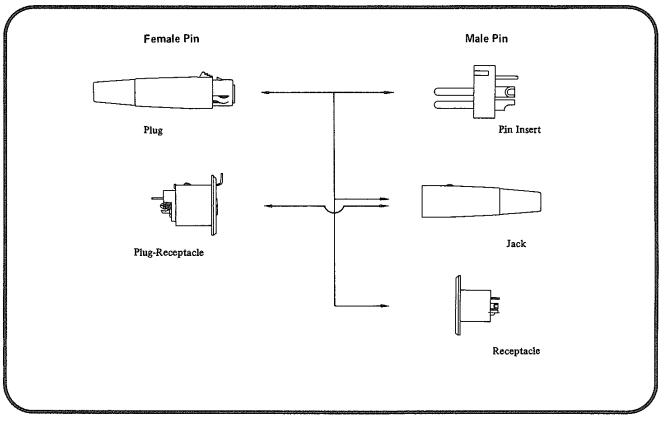


• HA16PRY-3SE

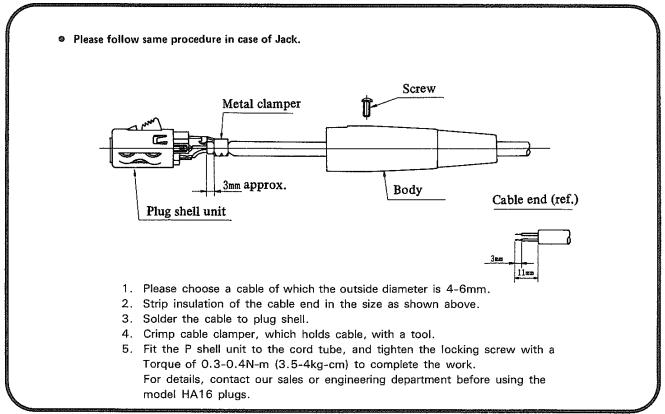


Note 1: The arrow sign 4 shows the mating direction of the applicable connector. Note that it is different from the direction of the mating guide key on a circuit board.
 Note 2: Recommended tolerance for the dip post layout is ±0.05.

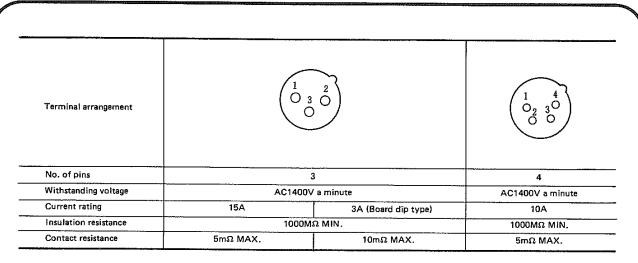
Coupling Combination



Assembling Procedure (HA16 Type Plug)



Terminal arrangement and main performance



Terminal arrangement	$\begin{pmatrix} 1 & 5 \\ O_2 & 4 \\ O & 3 & O \\ O & O & O \\ \end{pmatrix}$	$\begin{pmatrix} 1 & 7 & 6 \\ O_2 & O_4 & O_5 \\ O & 3 & 4 & O \\ O & O & O \\ O & O & O \\ \end{pmatrix}$
No. of pins	5	7
Withstanding voltage	AC1400 a minute	AC1400V a minute
Current rating	4A (7.5A)	5A
Insulation resistance	1000MΩ MIN.	1000MΩ MIN.
Contact resistance	10mΩ MAX.	10mΩ MAX,

Note 1. The above figures show the receptacle pin inserts as viewed from the mating side.

2. The withstand voltages show test voltages.

3. The insulation resistances show the values at 500VDC.

- 4. The contact resistance show the values at 1ADC.
- 5. The current rating of 7.5Å in for HA316 only.

