The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

# SR 30 SERIES CONNECTORS

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

## Introduction

SR30 series circular connectors are developed for use in the microphone circuitry of compact size wireless communication equipment. Its size is remarkably miniaturized compared with conventional connectors, offering an attractive contemporary design.



## Features

(1) Compact and light weight maximum outside diameter of $\phi$15 mm.
(2) Most suitable for compact electronic devices such as high grade transceivers, ITV cameras, and radio equipment.
(3) Streamlined design well suited for compact devices.
(4) Bushings are provided for the cable ends to prevent damage from bending.

## Main Specification

| Description | Test data |
|---|---|
| Withstanding voltage | AC 300V for 1 min. |
| Current capacity | 1A |
| Insulation resistance | 200MΩ and more at DC 100V |
| Contact resistance | 10mΩ or less at DC 1A |

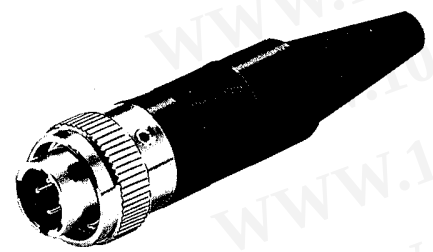
| Part | Material | Finish |
|---|---|---|
| Shell | Brass and Zinc alloy | Nickel plated and Chromium plated |
| Insulator | Polyacetal resin | Glass filled |
| Male pin | Brass | Gold plated or Silver plated |
| Female pin | Copper alloy | Gold plated or Silver plated |

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

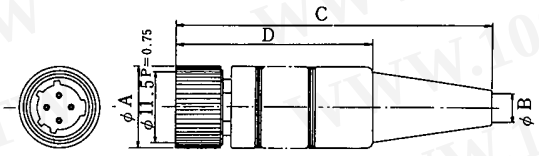
## Plug



SR30–10PE–6P



SR30–10PQ–6P




(An example in shape)

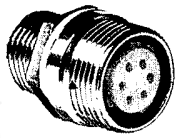
Note 1) When ordering the SR30–10PE–6P or SR30–10PX–6P, order SR30–P cable clamps separately, because such plugs have no cable clamps.

Note 2) The inside diameter of the male terminal solder post inside diameter is 0.8 mm.

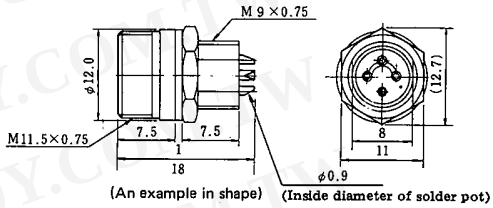
| HRS No. | Part No. | No. of pin | φA | φB | C | D | Remarks |
|---|---|---|---|---|---|---|---|
| 103–0265–2 | SR30–10PE–4P | 4 | 13 | 4.3 | 51.5 | 32 | |
| 103–0258–7 | SR30–10PE–6P | 6 | 13 | 4.3 | 51.5 | 32 | Note 1 |
| 103–0273–0 | SR30–10PG–6P | 6 | 13 | 5.2 | 49.0 | 31 | |
| 103–0336–9 | SR30–10PX–6P | 6 | 13 | 5.7 | 49.0 | — | Note 1 |
| 103–0319–0 | SR30–10PF–6P | 6 | 15 | 5.5 | 55.0 | — | |
| 103–0316–1 | SR30–10PF–7P | 7 | 15 | 5.5 | 55.0 | — | Silver plated |
| 103–0341–9 | SR30–10PM–4P | 4 | 15 | 5.7 | 49.0 | — | |
| 103–0288–8 | SR30–10PM–6P | 6 | 15 | 5.7 | 49.0 | — | |
| 103–0293–8 | SR30–10PQ–4P | 4 | 15 | 4.3 | 57.5 | 38 | Screw attached |
| 103–0313–3 | SR30–10PQ–6P | 6 | 15 | 4.3 | 57.5 | 38 | Screw attached |
| 103–0350–0 | SR30–10WP–6PA | 6 | 15 | 4.3 | 51.5 | 32 | Waterproof |
| 103–0362–9 | SR30–10WPA–7P | 7 | 15 | 5.5 | 109 | — | Waterproof |
| 103–0266–5 | SR30–P | Metal clamper | | | | | |

## Receptacle (Jam Nut to be fastened)

### Solder Type



SR30–10R–6S




(An example in shape) (Inside diameter of solder pot)

Note 1: Some dimensions of the waterproof types different from those given below.

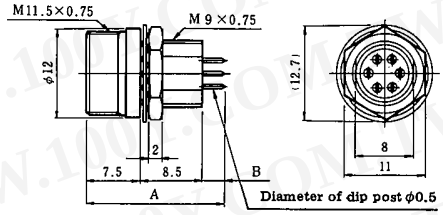
| HRS No. | Part No. | No. of pin | Remarks |
|---|---|---|---|
| 103–0264–0 | SR30–10R–4S | 4 | |
| 103–0239–2 | SR30–10R–6S | 6 | |
| 103–0317–4 | SR30–10R–7S | 7 | Silver plated |
| 103–0349–0 | SR30–10WR–6SA | 6 | Waterproof |

Remark: Use mounting panels 5 mm or less in thickness.

### Dip Type



SR30–10RA–6SE




(An example in shape)

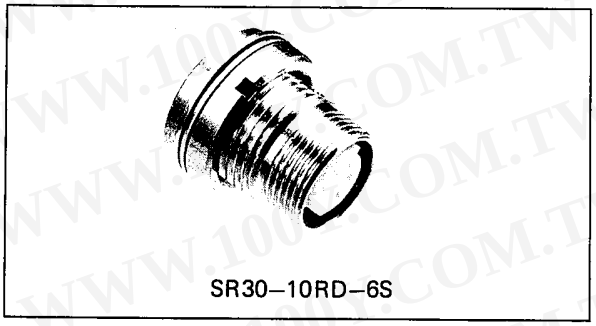
| HRS No. | Part No. | No. of pin | A | B | Remarks |
|---|---|---|---|---|---|
| 103–0356–6 | SR30–10RA–4SE | 4 | 19 | 3 | Silver plated |
| 103–0326–5–02 | SR30–10RA–6SE(02) | 6 | 19 | 3 | |
| 103–0327–8 | SR30–10RA–7SE | 7 | 19 | 3 | Silver plated |
| 103–0329–3–01 | SR30–10RA–6SF(01) | 6 | 24 | 8 | Dip post dia. φ0.8 |
| 103–0361–6 | SR30–10WR–7SE | 7 | 19 | 3 | Waterproof |

Remark: Use mounting panels 5 mm or less in thickness.

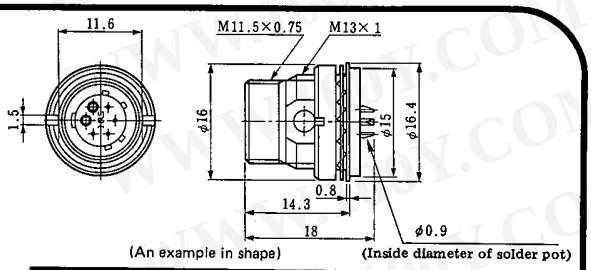
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

# Receptacle (Jam Nut to be fastened from front panel)

## (Solder Type)



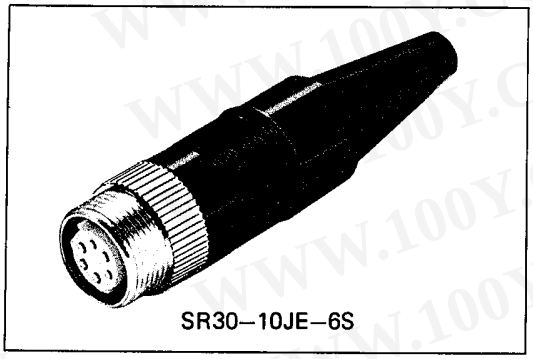
SR30–10RD–6S



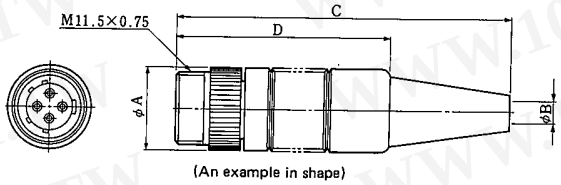

| HRS No. | Part No. | No. of pins |
|---|---|---|
| 103–0302–7 | SR30–10RD–6S | 6 |

Remark: Use mounting panel 3 mm or less in thickness.

## Jack



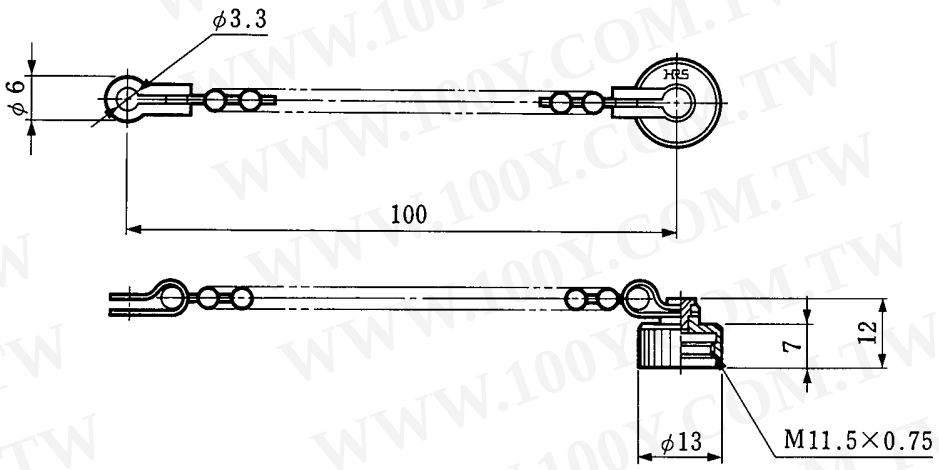
SR30–10JE–6S




Note 1) When ordering the SR30–10JE–6S receptacles, order SR30-P cable clamps (CL103–0266–5) separately, because they have no cable clamps.
Note 2) The inside diameter of the male terminal solder pot is 0.9 mm.

| HRS No. | Part No. | No. of pins | φA | φB | C | D | Remarks |
|---|---|---|---|---|---|---|---|
| 103–0301–4 | SR30–10JE–4S | 4 | 13 | 4.3 | 53.5 | 34 | |
| 103–0259–0 | SR30–10JE–6S | 6 | 13 | 4.3 | 53.5 | 34 | Note 1) |
| 103–0292–5 | SR30–10JM–6S | 6 | 13 | 5.7 | 51 | — | |
| 103–0330–2 | SR30–10JF–7S | 7 | 13 | 5.5 | 57 | — | Silver plated |

# Cap

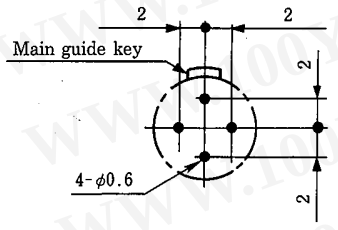



| HRS No. | Part No. | Remarks |
|---|---|---|
| 103–0344–7 | SR30–10RC1 | |

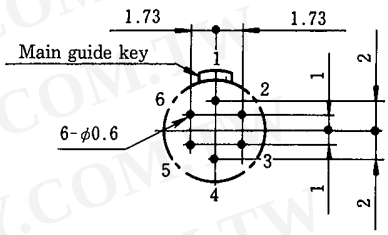
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

## PCB Layout

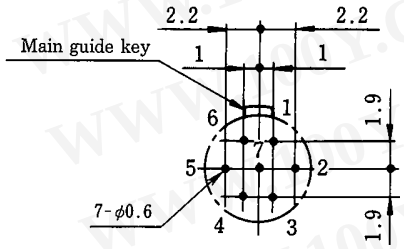
### 4 pin




### 6 pin

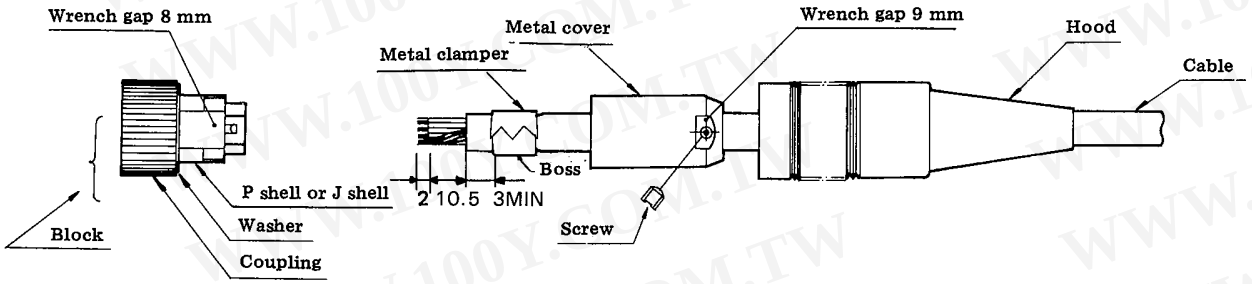



### 7 pin




Remarks 1. The figures show the views from the mating side.
2. Dimensional tolerance of dip post arrangement is recommended ±0.05.
3. A hole diameter of 0.9 mm is recommended for the SR30—10RA-6SF(01).

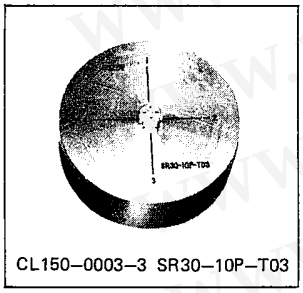
## Assembling Procedure



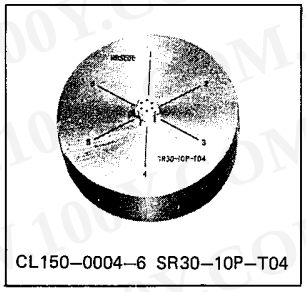

1. Use a cable of 4.2 — 4.8 m/m, for SR30-10PE-4P and SR30-10PE-6P, or 5.5 — 6.2 m/m, for SR30-10PM-6P, in the outer diameter and 0.3 $m/m^2$ in nominal conductor cross-sectional area.
2. Pass the cable through a hood and a metal cover. Cut off the end of the cable with dimensions as shown.
3. Insert an assembling tool into the block and terminate the cable by soldering.
4. Stake a metal clamper, SR30-P, to the cable several times by means of a crimping tool, SR30-10PE-T, in such a way that the outer diameter becomes about 5.2 m/m.
5. And then, fasten the metal cover into the thread section of plug shell by means of a single-acting torque wrench.
6. Thrust a screw into one of two bosses of the metal clamper in such a way that the tip of screw sinks.
7. Put a hood on the metal cover.

## Tools

### Clamping Tool

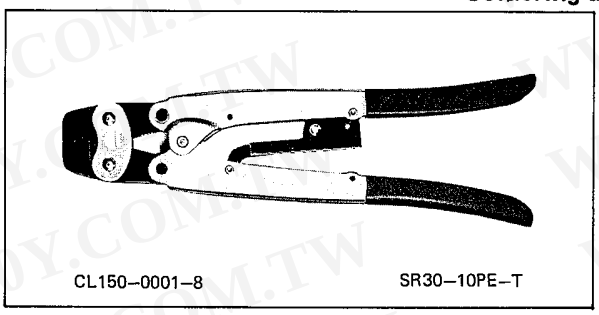


CL150—0003—3 SR30—10P—T03



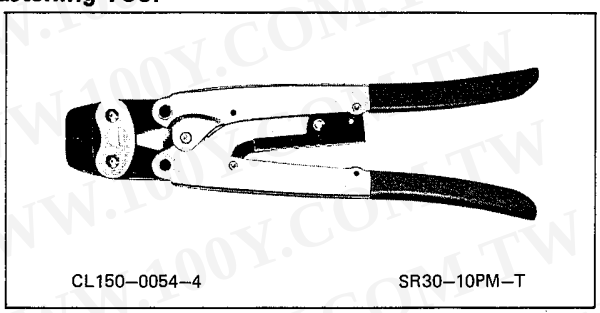
CL150—0004—6 SR30—10P—T04

### Soldering and Fastening Tool



CL150—0001—8 SR30—10PE—T

Applicable Cable dia. φ4.2 ~ φ4.8



CL150—0054—4 SR30—10PM—T

Applicable Cable dia. φ6



勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw