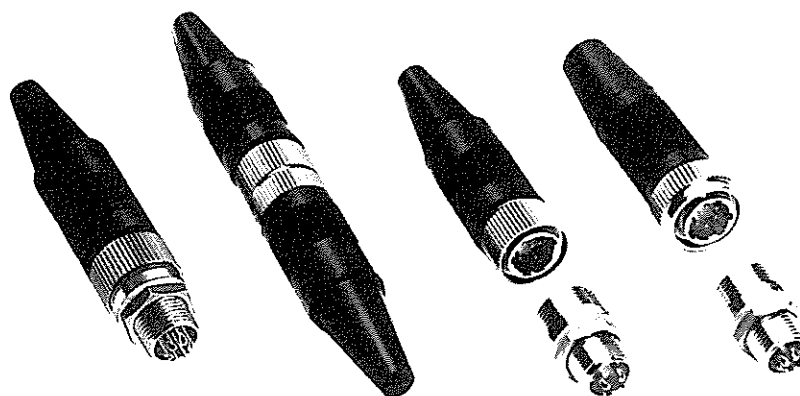# SR 30 SERIES CONNECTORS

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 φ15 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

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Plug

SR30-10PE-6P (74)

SR30-10PQ-4P (71)
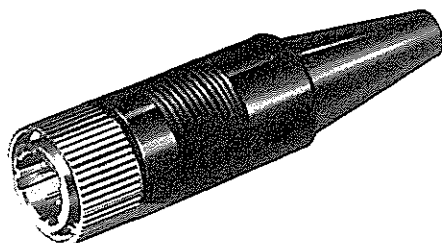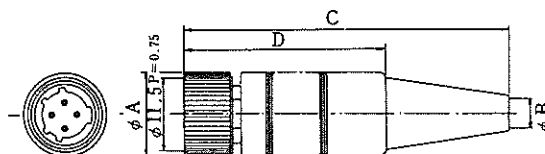
(An example in shape)

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.
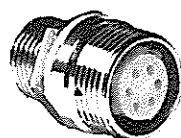
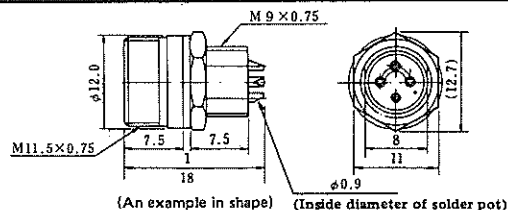| HRS No.	Part No.	No. of pin	ϕA	ϕB	C	D	Remarks	RoHS
103-0265-2-71	SR30-10PE-4P (71)	4	13	4.3	51.5	32	–	
103-0258-7-74	SR30-10PE-6P (74)	6	13	4.3	51.5	32	Note 1	
103-0273-0-71	SR30-10PG-6P (71)	6	13	5.2	49.0	31	–	
103-0336-9-71	SR30-10PX-6P (71)	6	13	5.7	49.0	–	Note 1	
103-0319-0-71	SR30-10PF-6P (71)	6	15	5.5	55.0	–	–	
103-0316-1-71	SR30-10PF-7P (71)	7	15	5.5	55.0	–	Silver plated	
103-0341-9-71	SR30-10PM-4P (71)	4	15	5.7	49.0	–	–	○
103-0288-8-71	SR30-10PM-6P (71)	6	15	5.7	49.0	–	–	
103-0293-8-71	SR30-10PQ-4P (71)	4	15	4.3	57.5	38	Screw attached	
103-0313-3-71	SR30-10PQ-6P (71)	6	15	4.3	57.5	38	Screw attached	
103-0350-0-71	SR30-10WP-6PA (71)	6	15	4.3	51.5	32	Waterproof	
103-0362-9-71	SR30-10WPA-7P (71)	7	15	5.5	109	–	Waterproof	
103-0266-5	SR30-P	Metal clamper					–	
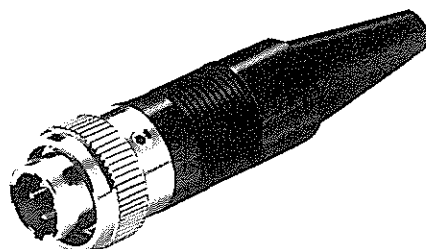
Receptacle (Jam Nut to be fastened)

## Solder Type

SR30-10R-6S (71)

M 9 × 0.75

M11.5×0.75

(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	RoHS
103-0264-0-71	SR30-10R-4S (71)	4	–	
103-0239-2-71	SR30-10R-6S (71)	6	–	○
103-0317-4-71	SR30-10R-7S (71)	7	Silver plated	
103-0349-0-71	SR30-10WR-6SA (71)	6	Waterproof	

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

Dip Type

SR30-10RA-6SE (72)

M11.5×0.75 M 9 ×0.75

Diameter of dip post φ0.5
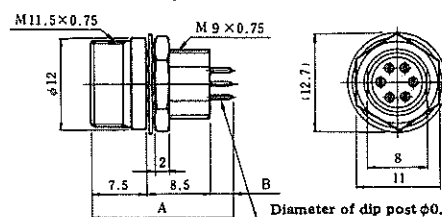
(An example in shape)

HRS No.	Part No.	No. of pin	A	B	Remarks	RoHS
103-0356-6-71	SR30-10RA-4SE (71)	4	19	3	Silver plated	
103-0326-5-72	SR30-10RA-6SE (72)	6	19	3	–	○
103-0327-8-71	SR30-10RA-7SE (71)	7	19	3	Silver plated	
103-0361-6-71	SR30-10WR-7SE (71)	7	19	3	Waterproof	

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

Receptacle (Jam Nut to be fastened from front panel)

(Solder Type)

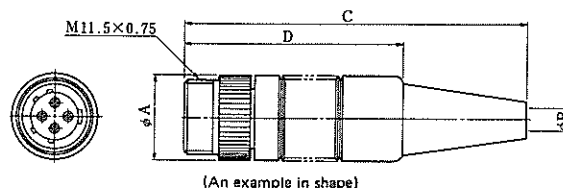SR30-10RD-6S (71)

(An example in shape)   (Inside diameter of solder pot)
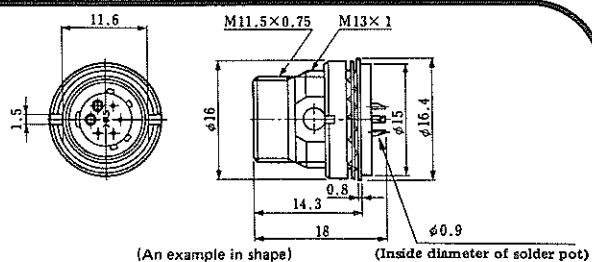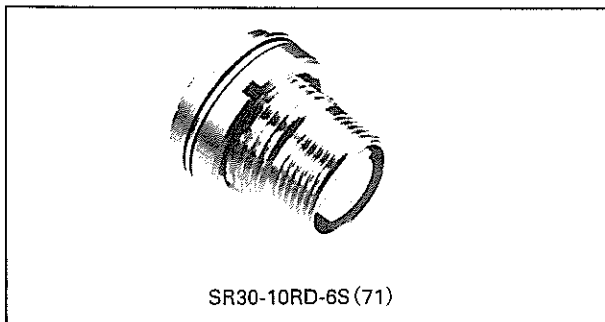
HRS No.	Part No.	No. of pins	RoHS
103-0302-7-71	SR30-10RD-6S (71)	6	○

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

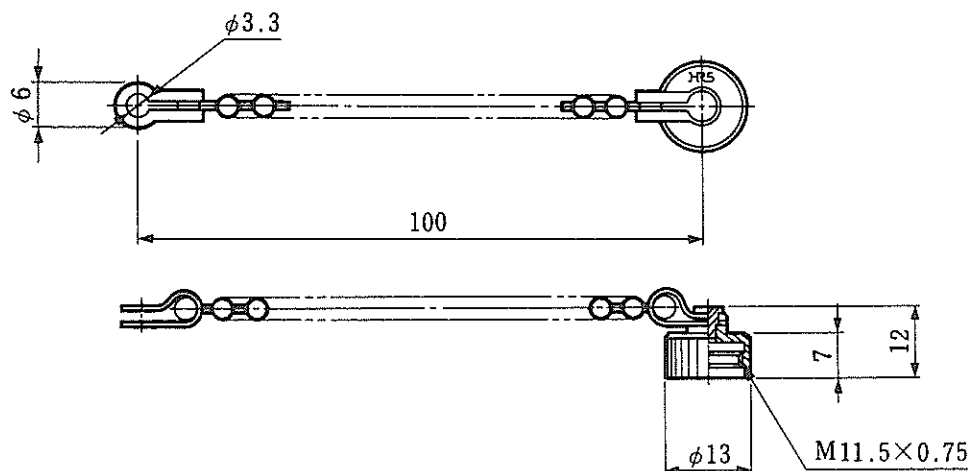## Jack

SR30-10JE-6S (71)

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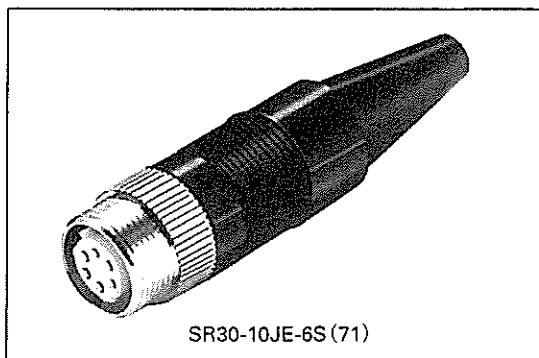
Note 1) When ordering the SR30—10JE—6S receptacles, order SR30-P cable clamps (CL103—0266—5) separately, because they have no cable clamps.
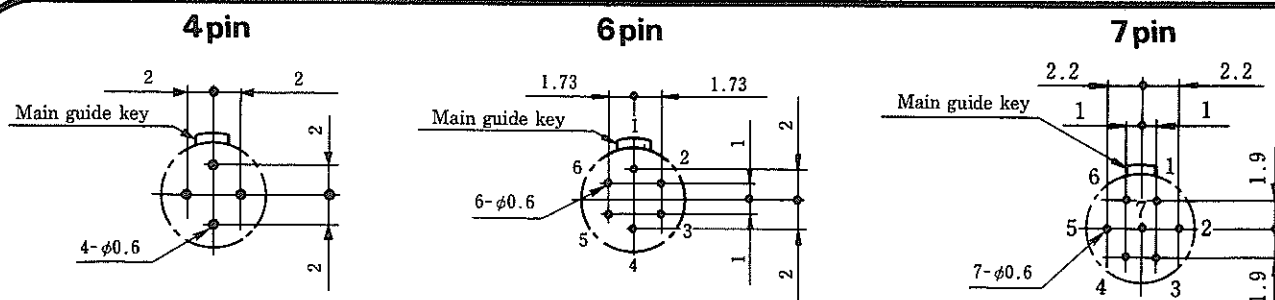Note 2) The inside diameter of the male terminal solder pot is 0.9 mm.

HRS No.	Part No.	No. of pins	φA	φB	C	D	Remarks	RoHS
103-0301-4-71	SR30-10JE-4S (71)	4	13	4.3	53.5	34	–	
103-0259-0-72	SR30-10JE-6S (72)	6	13	4.3	53.5	34	Note1)	○
103-0292-5-71	SR30-10JM-6S (71)	6	13	5.7	51	–	–	
103-0330-2-71	SR30-10JF-7S (71)	7	13	5.5	57	–	Silver plated	

Cap

φ3.3

φ6

100

12

7

φ13   M11.5×0.75

HRS No.	Part No.	Remarks	RoHS
103-0344-7-71	SR30-10RC1 (71)	–	○

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PCB Layout

4 pin	6 pin	7 pin

Main guide key
4-φ0.6

Main guide key
6-φ0.6

Main guide key
7-φ0.6

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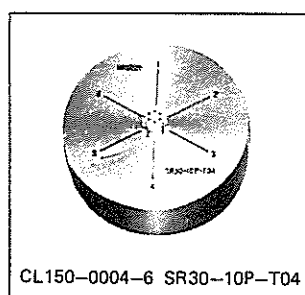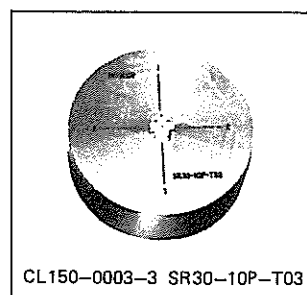3. A hole diameter of 0.9 mm is recommended for the SR30—10RA-6SF(01).

Assembling Procedure

Wrench gap 8 mm   Metal cover   Wrench gap 9 mm   Hood

Metal clamper   Cable

P shell or J shell   Boss
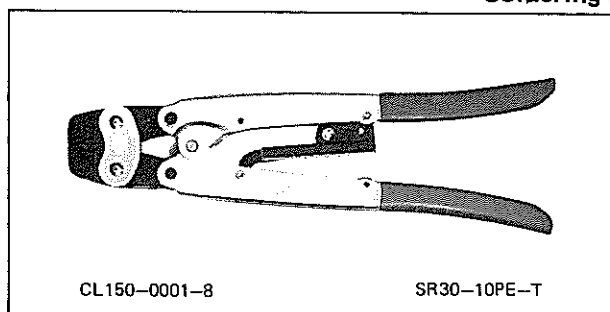Washer   2 10.5 3MIN
Block   Coupling   Screw
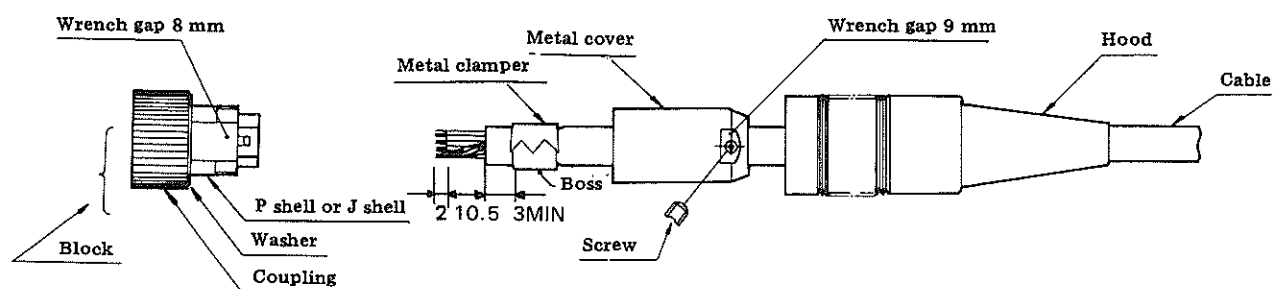
1. Use a cable of 4.2 — 4.8 m/m, for SR30-10PE-4P and SR30-10PE-6P, or 5.5 — 6.2 m/m, for SR30-10PM-6P, in the outer diameter and 0.3 m/m^2 in nominal conductor cross-sectional area.
2. Pass the cable through a hood and a metal cover. Cut off the end of the cable with dimensions as shown.
3. Insert an 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.
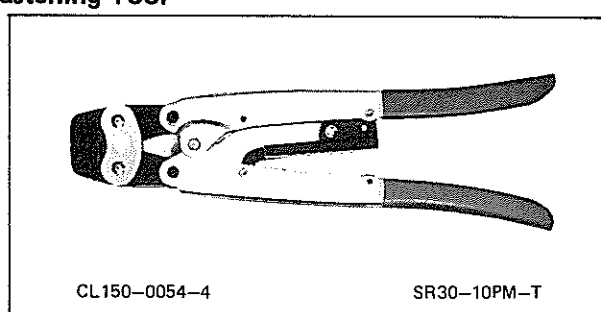7. Put a hood on the metal cover.

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

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