DOCUMENT NUMBER S05-H095-01E

# SMU-P Series

## Single mode
## MU CONNECTOR PLUG

## TECHNICAL SPECIFICATIONS

SEIKOH GIKEN

SEIKOH GIKEN Co.,Ltd.
**Fiber Optic Products Division**
296-1, MATSUHIDAI, MATSUDO-SHI,
CHIBA, 270-2214 JAPAN.
TEL: +81-47-388-6111 FAX: +81-47-388-4477

SMU-P Series Single mode MU CONNECTOR PLUG
TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| ACD-25BA-01 | June | 2002 |
| S05-H042-01E | July | 2006 |
| S05-H095-01E | January | 2010 |

Copyright © 2002 - 2010 by SEIKOH GIKEN Co.,Ltd.
All right reserved.

The information contained herein shall not be reproduced or disclosed to any third party without the express written consent of SEIKOH GIKEN Co., Ltd.
The specifications contained herein are subject to change without notice.

Please address any questions, comments, and suggestions to:

**SEIKOH GIKEN USA, Inc.**
4405 International Blvd., Suite B109
Norcross, GA 30093 U.S.A.
TEL: +1-770-279-6602 FAX: +1-770-279-8839

**SEIKOH GIKEN Europe GmbH**
Siemensstrasse 9
D-63263 Neu-Isenburg, Germany
TEL: +49-6102-297-701
FAX: +49-6102-297-750

**SEIKOH GIKEN Hong Kong Co.,Ltd.**
Concordia Plaza 21/F Rm2111,
1 Science Museum Road, Tsim Sha Tsui East,
Kowloon, Hong Kong.
TEL: +852-26206551 FAX: +852-26206525

TABLE OF CONTENTS


| Section | | | Page |
|---|---|---|---|
| 1 | SCOPE | | 1 |
| 2 | PART NUMBER | | 1 |
| 3 | GENERAL SPECIFICATIONS | | 2 |
| | 3.1 | Parts and Materials | 2 |
| | 3.2 | Physical Dimensions | 3 |
| | 3.3 | General Tolerance | 3 |
| | 3.4 | Appearance | 3 |
| 4 | PACKING | | 3 |
| 5 | IDENTIFICATION | | 3 |
| 6 | HANDLING AND CARE | | 4 |
| | 6.1 | Conditions of Storage | 4 |
| | 6.2 | Precautions of Use | 4 |
| | 6.3 | Disposal | 4 |


Table


| | | |
|---|---|---|
| Table 1 | Part Number | 1 |
| Table 2 | Parts and Materials | 2 |
| Table 3 | Parts and Materials of Main Body | 2 |
| Table 4 | Physical Specifications | 3 |
| Table 5 | General Tolerance | 3 |


Figure


| | | |
|---|---|---|
| Figure 1 | SMU-P Series Connector Plug (for ø 0.9 mm buffered fiber) | 5 |
| Figure 2 | SMU-P Series Connector Plug (for ø 2 mm cord) | 6 |
| Figure 3 | Main Body | 7 |
| Figure 4 to 8 | Dimensions of Parts | 8 to 9 |

## 1 SCOPE

These specifications apply to the SMU-P series single mode MU connector plug supplied by SEIKOH GIKEN Co., Ltd.

## 2 PART NUMBER

Part number of the connector plug is shown in Table 1.

Table 1 Part Number

| MODEL Number | TYPE Number | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SMU-P** | **9** | **1** | **1** | **2** | **5** | **1** | **C** | **3** | **0** | **1** | **G** |

| Boot Color | |
|---|---|
| 5 | Blue |
| 8 | Green |
| 9 | Lavender |

| Boot I.D. [mm] | |
|---|---|
| 1 | for ø 0.9 buffered fiber |
| 2 | for ø 2 cord |

| Ferrule I.D. [µm] | |
|---|---|
| 1 2 5 | ø 125 |
| 1 2 F | ø 125.5 |
| 1 2 6 | ø 126 |

| Marking of Grip | |
|---|---|
| 1 | SG / SMU-P |

| Cap | |
|---|---|
| C | White Frame Cap |

| Package | |
|---|---|
| 3 | Bulk Package |

| Auxiliary digit |
|---|
| 0 1 G |

Please contact us for availability of other specifications.

# 3 GENERAL SPECIFICATIONS

## 3.1 Parts and Materials

Parts and materials are shown in Table 2.

Table 2 Parts and Materials

| No. | Part Name | Qty | Material | Notes |
|---|---|---|---|---|
| ① | Main Body | 1 | See Table 3 | See Table 3 |
| ② | Grip | 1 | PBT GF | Brown, Flammability UL94V-0 |
| ③ | Crimping Ring Note 2 | 1 | Aluminum Alloy + Sumitube® | Sumitube®: Black, with adhesive liner, Flame-retardant UL224 |
| ④-1 | Boot | 1 | TPEE | for ø 0.9 mm buffered fiber, Flammability UL94V-0 |
| ④-2 | | | | for ø 2 mm cord, Flammability UL94V-0 |
| ⑪ | Cap | 1 | PP | Frame Cap, White |

Notes: 1. Item on Table 2 corresponds to the item reference number on Figure 1 to 8.
2 ③Crimping Ring is not included for ø 0.9 mm buffered fiber type.

Table 3 Parts and Materials of Main Body

| Item | Part Name | Qty | Material | Notes |
|---|---|---|---|---|
| ⑤ | Capillary | 1 | Zirconia | - |
| ⑥ | Flange | 1 | Brass | Nickel Plating |
| ⑦ | Tube | 1 | PTFE | Clear, Flammability UL94 V-0 |
| ⑧ | Plug Frame | 1 | PBT GF | White, Flammability UL94 V-0 |
| ⑨ | Spring | 1 | Stainless Steel | - |
| ⑩ | Stop Ring | 1 | Brass | Nickel Plating |

Note: Item on Table 3 corresponds to the item reference number on Figure 3.

### 3.2 Physical Dimensions

Figure 1 to 2 show the SMU-P series connector plugs.
Figure 3 shows the main body.
Figure 4 to 8 show the dimensions of the parts.
Table 4 shows the physical specifications of the SMU-P series connector plug.

- In accordance with IEC 61754-6 Type MU connector family.
- In accordance with JIS C 5983 F14 Type connectors.

Table 4 Physical Specifications

| Items | Parts Number | Specifications | Remarks |
|---|---|---|---|
| Diameter (ø d) | SMU-P **1251C301G | ø 0.125 mm | - |
| | SMU-P **12F1C301G | ø 0.1255 mm | - |
| | SMU-P **1261C301G | ø 0.126 mm | - |

### 3.3 General Tolerances

Permissible deviation in dimensions without tolerance indication is in accordance with ISO 2768-m (JIS B 0405-m), as shown in Table 5.

Table 5 General Tolerance (ISO 2768-m)

| Basic size step [mm] | | Permissible deviation [mm] |
|---|---|---|
| Over | Under | |
| 0.5 | 3 | ±0.1 |
| 3 | 6 | ±0.1 |
| 6 | 30 | ±0.2 |
| 30 | 120 | ±0.3 |

### 3.4 Appearance

There should be no burr, peeling of plating or scratches that affect the product.

## 4 PACKING

The product is packed to prevent damage during shipment.

## 5 IDENTIFICATION

Identification label should indicate the part number and the lot number of the product(s) and should be permanently attached to the packing bag.

# 6 HANDLING AND CARE

## 6.1 Conditions of Storage

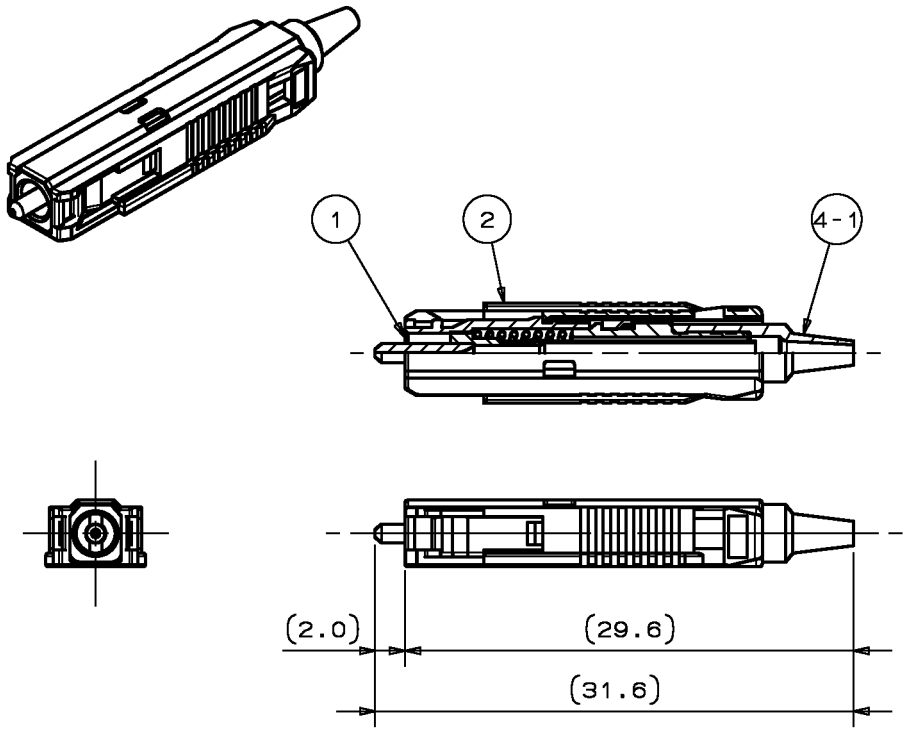
For storage of the product, keep in the packing bag and keep away from corrosive gas, high-temperature and humidity, extreme-low temperature and direct sunlight.

## 6.2 Precautions for Use

Contamination, oil, sweat and others debris on the ferrule end face may influence the performance of the product. If contamination is on the ferrule end face, wipe the end face with the end face cleaner.

## 6.3 Disposal

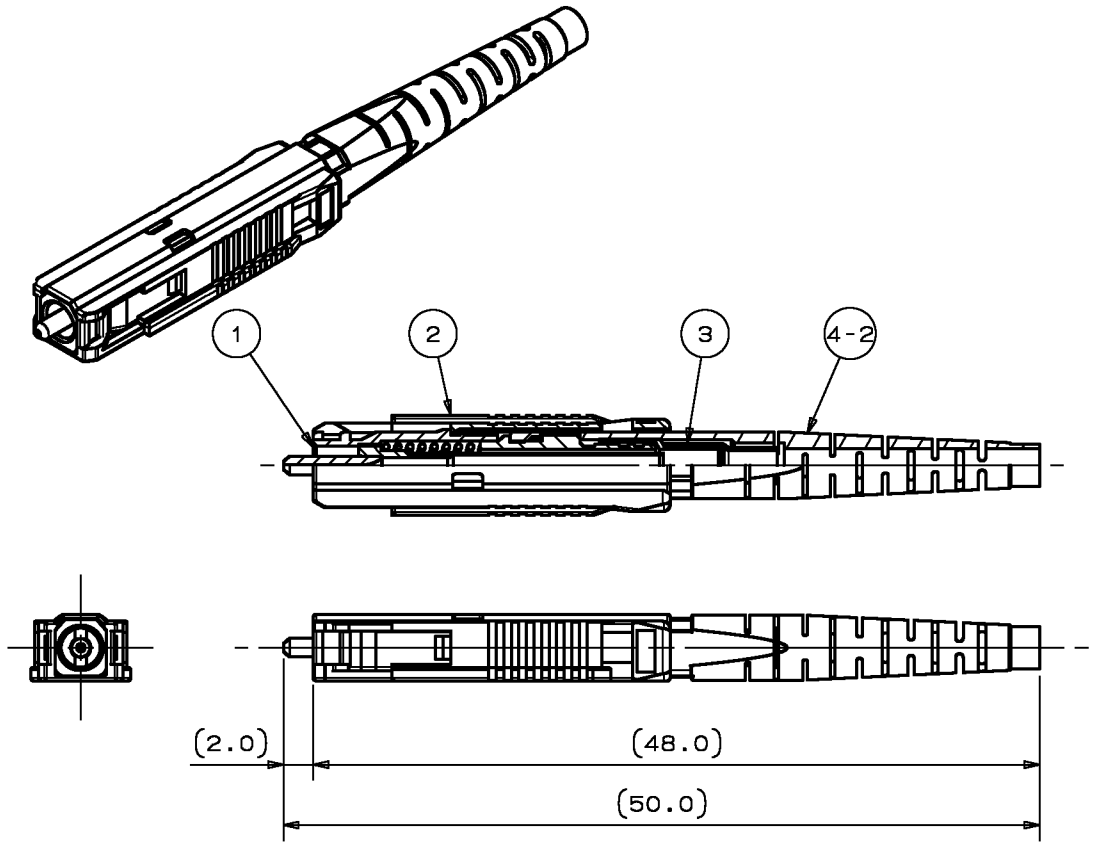
When discarding this product, please follow the regulations of your own country.




Notes: 1 This drawing shows the tentatively assembled condition.
On practical shipment of SMU-P connector plug, this tentative assembly is not available.
2 This drawing does not include the cap.

Unit: mm

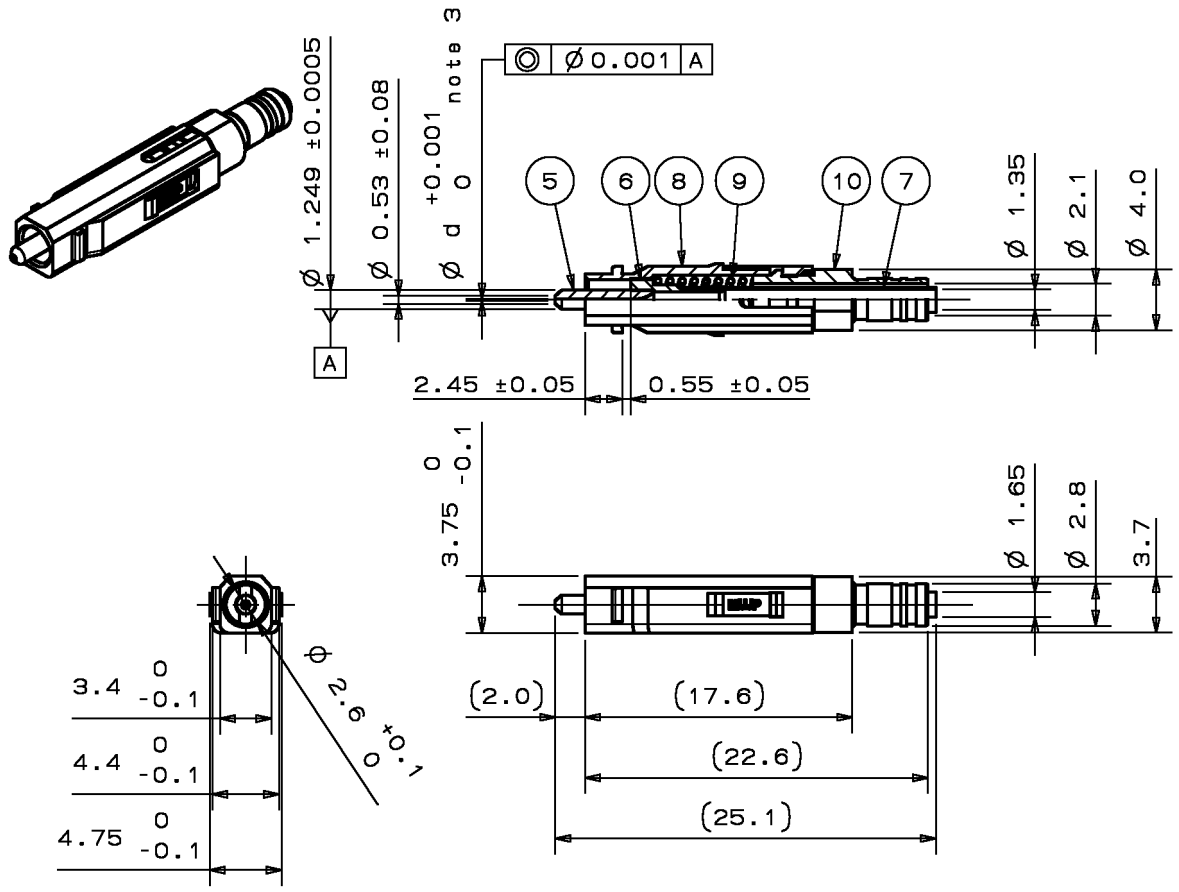
Figure 1 SMU-P Series Connector Plug (for ø 0.9 mm buffered fiber)




Notes: 1 This drawing shows the tentatively assembled condition.
On practical shipment of SMU-P connector plug, this tentative assembly is not available.
2 This drawing does not include the cap.

Unit: mm

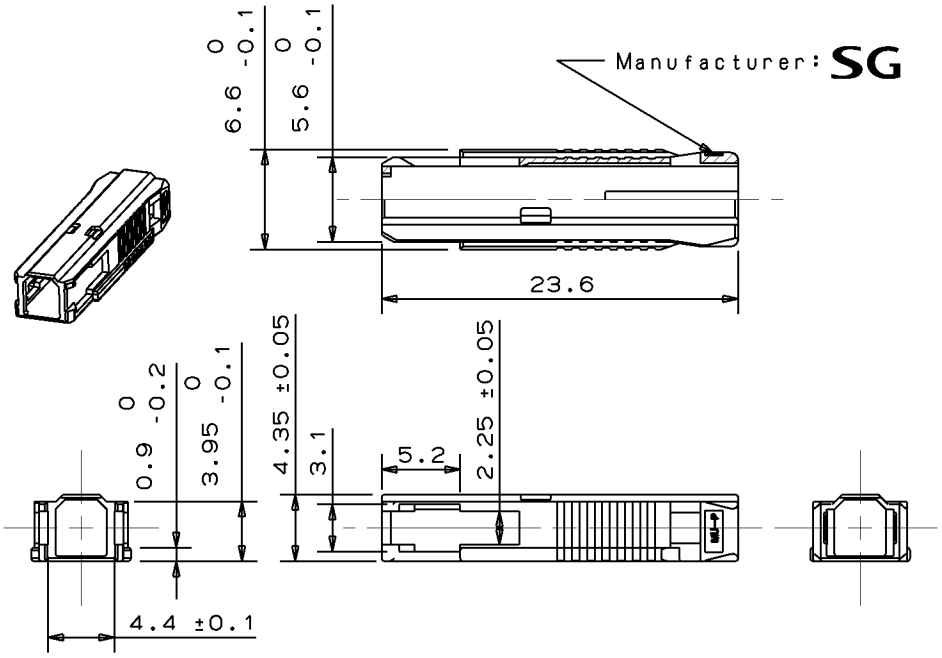
Figure 2 SMU-P Series Connector Plug (for ø 2 mm cord)




Note 3 Diameter (ø d) differs according to the part number shown in Table 4.

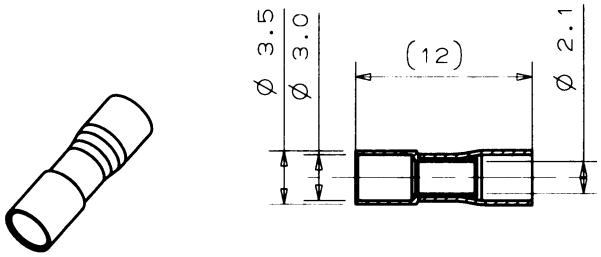
Unit: mm

Figure 3 ①Main Body



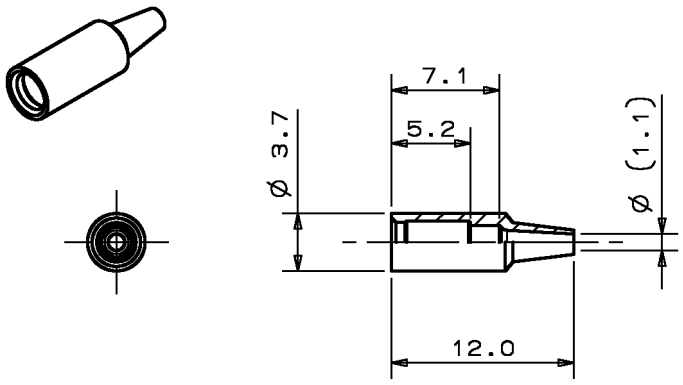

Unit: mm

Figure 4 ②Grip



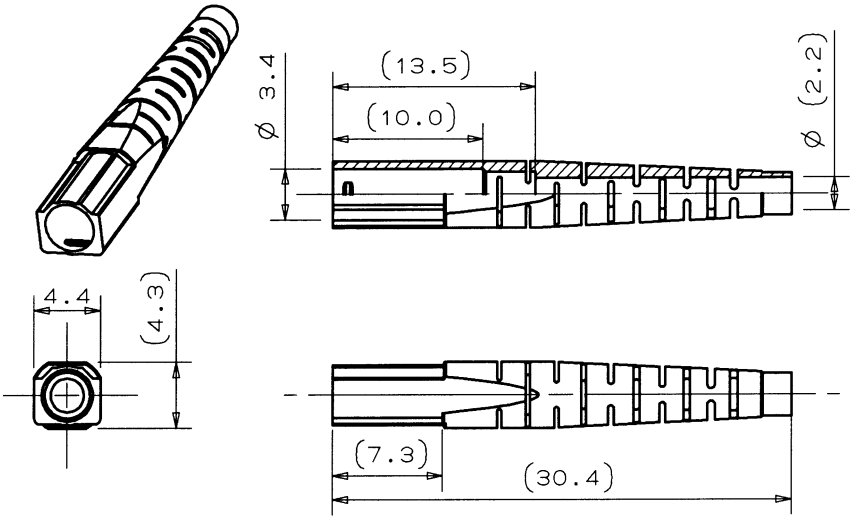

Unit: mm

Figure 5 ③Crimping Ring (for ø 2 mm cord)



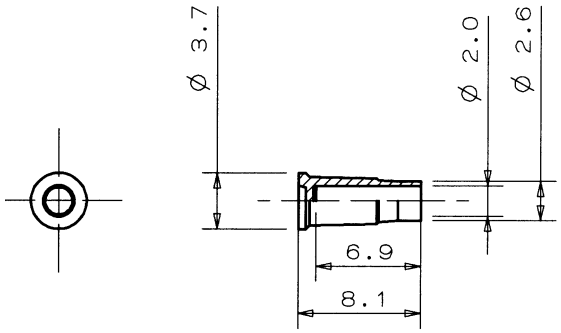

Unit: mm

Figure 6 ④-1 Boot (for ø 0.9 mm buffered fiber)




Unit: mm

Figure 7 ④-2 Boot (for ø 2 mm cord)




Unit: mm

Figure 8 ⑪Cap