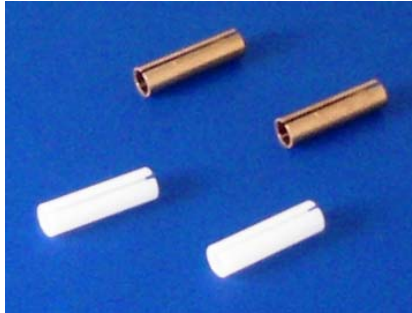


# LEAD Fiber Optics PRODUCT CATALOGUE

## CERAMIC SLEEVE

## Ceramic Sleeve



Ceramic sleeves (zirconia sleeve) are mostly used in **Fiber Adapter** for the main purpose of connecting and aligning two inserted **Ceramic Ferrules** together.

### **Ceramic Split sleeves and Solid ceramic sleeves.**

Ceramic Split sleeves are to hold ferrules in place firmly and to enable a stable connection with **Fiber Connectors**. Solid ceramic sleeves (precision sleeves) are often used for connecting optical modules. Moreover, the solid ceramic sleeve requires a more accurate inner diameter process than the Ceramic split sleeve.

### **Ceramic Split Sleeves and Phosphor Bronze Split Sleeves**

Ceramic Split sleeves are used in Adapters and other fiber optic components for fiber alignment to get minimal insertion loss of the transmitted light signal. Phosphor Bronze Split Sleeves are an economical solution for applications where tremendous durability and repeated connect / disconnect operations are not required.

Ceramic Splits sleeves and Phosphor Bronze Split Sleeves are categorized into two types used for ferrule outer diameters of 12.5mm and 2.5mm. They are used for connecting and aligning ferrules used with ST, FC, SC, LC and MU Fiber Connectors.

LFO provides several kinds of ceramic split sleeves and Phosphor Bronze Split Sleeves with various Ferrules pull force requirements for  $\phi 2.5\text{mm}$  OD Ferrules used for SC, FC and ST Fiber Adapters and for  $\phi 1.25\text{mm}$  OD Ferrules used for LC and MU Fiber Adapters.

We also provide sleeves with special configurations, such as taped or chamfered in ends. Those configurations were uniquely designed to reduce the sleeve's broken rate and ferrule surface's abrasion when inserting the adapters into the sleeves. The configuration of products is greatly improved on the basis of considering requirements of pull-out force, insertion loss and length

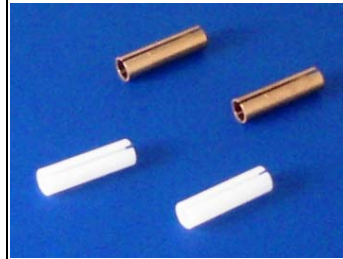
## Ceramic Sleeve

### Features

- Compliance with JIS, IEC standard
- Stable put out force
- High performance and superior durability
- Low insertion loss

### Applications

- Deigned for ST,FC,ST,LC,MU Adapter
- For singlemode and multimode
- Receptacles and Other



## Specifications (Ceramic Split Sleeve)

Style	Length	O.D (mm)	I.D. Tolerance (um)	Split Width	Chamfer	Pulling Force(N)
SC(FC)	11.4+/-0.1	3.2+/-0.02	2.49	0.5+/-0.1	2xR0.1	2~5.9
ST	10.1+/-0.1	3.2+/-0.02	2.49	0.5+/-0.1	2xR0.1	2~5.9
LC,MU	6.8+/-0.1	1.62+/-0.01	1.246	0.2+/-0.1	2xR0.1	1~2.5

## Specifications (Phosphor Bronze Split Sleeve)

Style	Length	O.D (mm)	I.D. Tolerance (um)	Split Width	Chamfer	Pulling Force(N)
SC(FC)	11.4+/-0.1	3.08	2.48	0.5+/-0.1	2x0.1+0.1/-0	2~5.9
ST	10.1+/-0.1	3.08	2.48	0.5+/-0.1	2x0.1+0.1/-0	2~5.9
LC,MU	6.8+/-0.1	1.62	1.25	0.2+/-0.1	2x0.1+0.1/-0	1.98~2.96

**LEAD Fiber Optics Co.,Ltd.**

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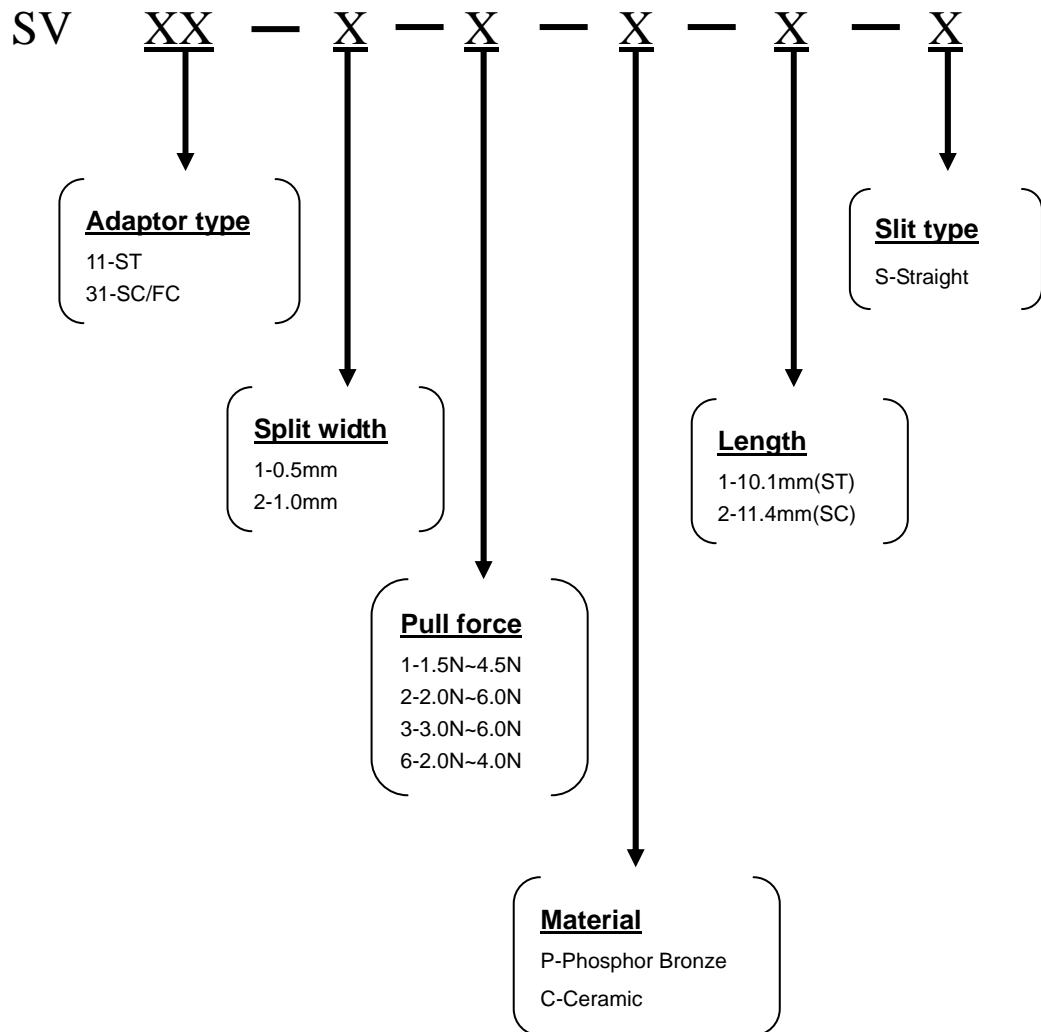
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## Sleeve Ordering information

Sleeves for  $\phi 2.5$  ferrule (ST,SC,FC)



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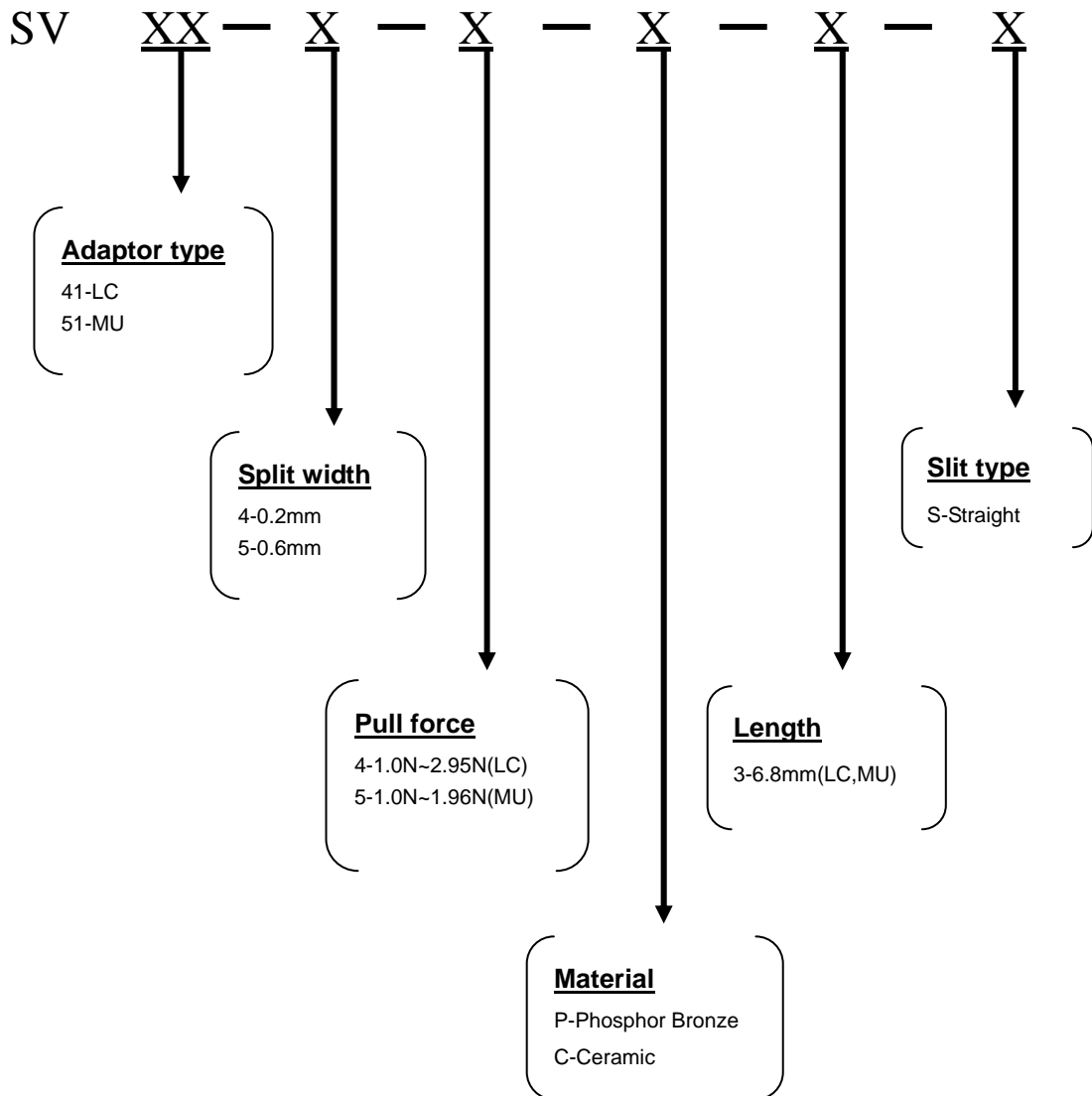
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## Sleeve Ordering information

sleeves for  $\phi$  1.25 ferrule (MU,LC)



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## **LFO Fiber Optics Sleeve Series**



### **ST Fiber Optic Ceramic Sleeve**

The split ceramic sleeve with  $\phi 3.2$ mm OD, 10.1mm length and 0.5 mm split width is for ST Adapter.

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### **SC/FC Fiber Optic Ceramic Sleeve**

The split ceramic sleeve with  $\phi 3.2$ mm OD, 11.4mm length and 0.5 mm split width is for SC/FC Adapter.

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### **LC/MU Fiber Optic Ceramic Sleeve**

The split ceramic sleeve with  $\phi 1.62$ mm OD, 6.8mm length and 0.2 mm split width is for LC/MU Adapter.

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### **ST Fiber Optic phosphor bronze Sleeve**

The split phosphor bronze sleeve with  $\phi 3.8$ mm OD, 10.1mm length and 0.5 mm split width is for ST Adapter.

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### **SC/FC Fiber Optic phosphor bronze Sleeve**

The split phosphor bronze sleeve with  $\phi 3.8$ mm OD, 11.4mm length and 0.5 mm split width is for SC/FC Adapter.

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### **LC/MU Fiber Optic phosphor bronze Sleeve**

The split phosphor bronze sleeve with  $\phi 1.62$ mm OD, 6.8mm length and 0.2 mm split width is for LC/MU Adapter.

## ST Fiber Optic Ceramic Sleeve

### Features

- High quality ceramic material
- High performance and superior durability
- Low insertion loss
- Design for ST Adapter and Attenuator
- Consistent withdrawal force
- Compliant with JIS Specification

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other
- LD Receptacle



## Specifications

ITEM	VALUES
Material	Ceramic
Outer Diameter	3.2 ± 0.02 mm
Inner Diameter	2.49 mm
Length	10.1 ± 0.1 mm
Split Width	0.5 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	2 ~ 5.9

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## SC/FC Fiber Optic Ceramic Sleeve

### Features

- High quality ceramic material
- High performance and superior durability
- Low insertion loss
- Design for FC/SC Adapter and Attenuator
- Consistent withdrawal force
- Compliant with JIS Specification

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other
- LD Receptacle



## Specifications

ITEM	VALUES
Material	Ceramic
Outer Diameter	3.2 ± 0.02 mm
Inner Diameter	2.49 mm
Length	11.4 ± 0.1 mm
Split Width	0.5 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	2 ~ 5.9

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## LC/MU Fiber Optic Ceramic Sleeve

### Features

- High quality ceramic material
- High performance and superior durability
- Low insertion loss
- Design for LC/MU Adapter and Attenuator
- Consistent withdrawal force
- Compliant with JIS Specification

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other
- LD Receptacle



## Specifications

ITEM	VALUES
Material	Ceramic
Outer Diameter	1.62 ± 0.01 mm
Inner Diameter	1.246 mm
Length	6.8 ± 0.1 mm
Split Width	0.2 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	1 ~ 2.5

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## ST Fiber Optic phosphor bronze Sleeve

### Features

- High quality phosphor bronze material
- High performance and superior durability
- Low insertion loss
- Design for ST Adapter and Attenuator
- Consistent withdrawal force

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other



## Specifications

ITEM	VALUES
Material	phosphor bronze
Outer Diameter	3.08 mm
Inner Diameter	2.48 mm
Length	10.1 ± 0.1 mm
Split Width	0.5 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	2 ~ 5.9

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## SC/FC Fiber Optic phosphor bronze Sleeve

### Features

- High quality phosphor bronze material
- High performance and superior durability
- Low insertion loss
- Design for FC/SC Adapter and Attenuator
- Consistent withdrawal force

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other



## Specifications

ITEM	VALUES
Material	phosphor bronze
Outer Diameter	3.08 mm
Inner Diameter	2.48 mm
Length	11.4 ± 0.1 mm
Split Width	0.5 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	2 ~ 5.9

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## LC/MU Fiber Optic phosphor bronze Sleeve

### Features

- High quality phosphor bronze material
- High performance and superior durability
- Low insertion loss
- Design for LC/MU Adapter and Attenuator
- Consistent withdrawal force

### Applications

- Singlemode and Multimode
- Fiber Optic Receptacle, Adapter, Attenuator and other



## Specifications

ITEM	VALUES
Material	phosphor bronze
Outer Diameter	1.62 mm
Inner Diameter	1.25 mm
Length	6.8 ± 0.1 mm
Split Width	0.2 ± 0.1 mm
Chamfer	2 × R0.1
Pulling Force(N)	1.98 ~ 2.96

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