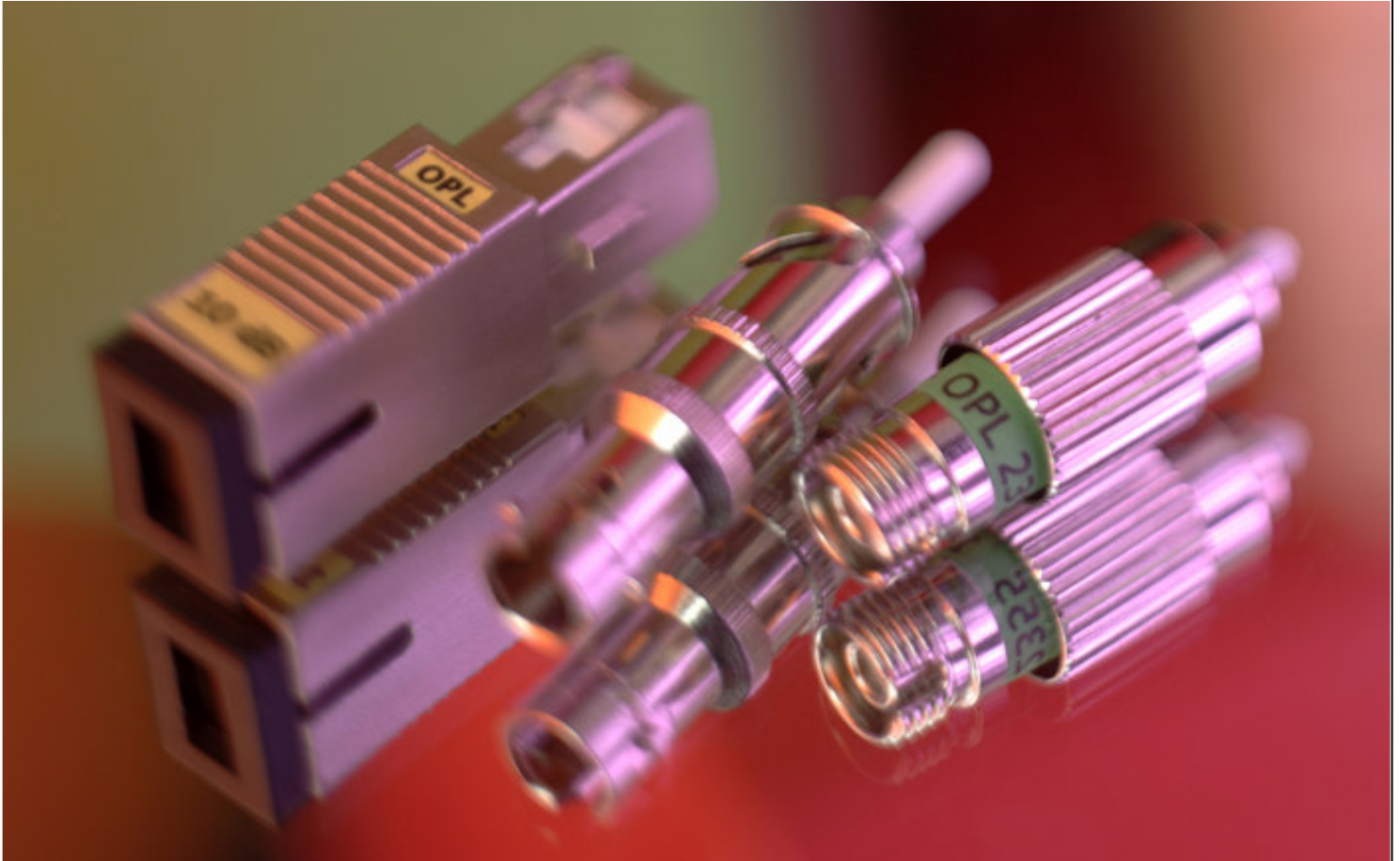
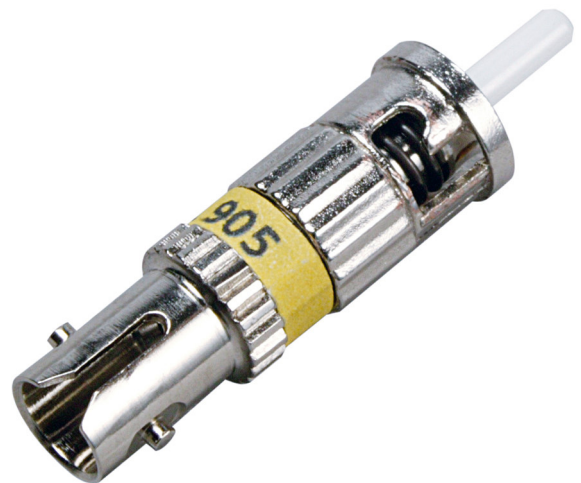


ST SM Plug-type Attenuator



T E C H N I C A L S P E C I F I C A T I O N



GENERAL

This specification concerns the requirement of the ST singlemode Plug-type Attenuator.

MODELS AVAILABLE

The ST Plug-type Attenuator is available in the following standard versions:

- PC singlemode: red rear dust cap, yellow label.
- Multimode: black rear dust cap, orange label.

OPTICAL CHARACTERISTICS

Attenuated Fibre Characteristics

| | |
|--|--|
| Fibre | Long Metal Attenuated Fibre with mode cladding suppression to eliminate modal noise present in the cladding. |
| Wavelength | 1310 and 1550 nm \pm 40 nm |
| Polarisation Dependent Loss (PDL) | < 0.1 dB |
| Power Endurance | 100 mW |
| Peak Power Endurance | 15 minutes exposure of 900 mW power light |

Typical Attenuation Tolerance

| Nominal Value (dB) | Standard Tolerance (dB) | Narrow Tolerance (dB) |
|---------------------|-------------------------|-----------------------|
| 1 \div 5 | \pm 0.5 | \pm 0.3 |
| 6 \div 10 | \pm 0.7 | \pm 0.5 |
| 11 \div 20 and 25 | \pm 1.0 | \pm 0.8 |

Other attenuation tolerances are available on request.

Return Loss (dB)

| | SPC | UPC | UPC Premium |
|----|------|------|-------------|
| SM | > 45 | > 50 | > 55 |

M E C H A N I C A L C H A R A C T E R I S T I C S

- Mating durability > 1.000 connections.

E N V I R O N M E N T A L S P E C I F I C A T I O N

| | min | max |
|----------------------------|-----|-----|
| Operating Temperature (°C) | -25 | +80 |
| Storage Temperature (°C) | -40 | +85 |

P A C K A G I N G

The ST Plug-type Attenuator has one label around the body with:

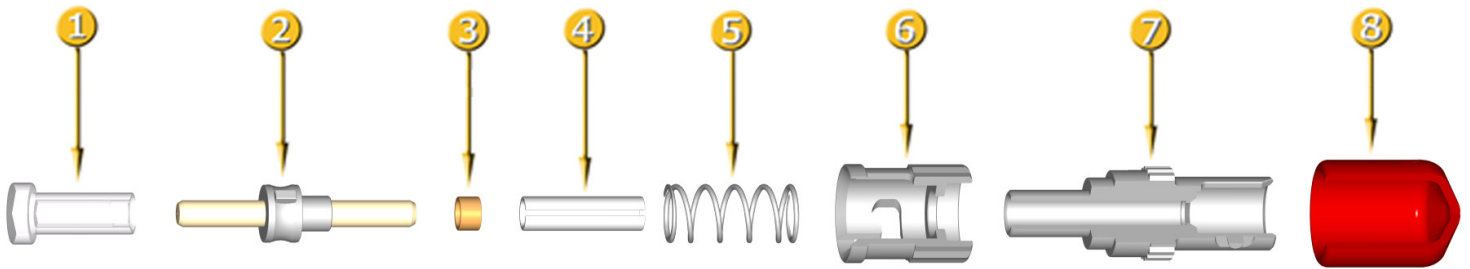
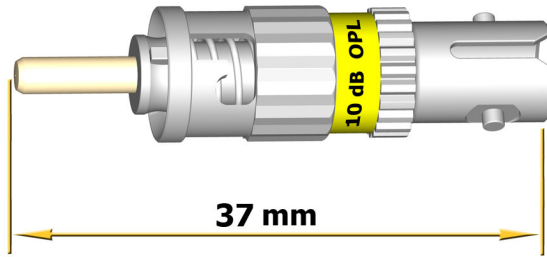
- Attenuation Value – xx dB
- Identification Number - xxxx
- OPL logo

Each attenuator is packed as standard in plastic transparent bag with label including optical main characteristics and the identification number.

Each carton box labelled with product description and quantity contains 50 single packaging.

Custom labels and packaging are available on request.

TECHNICAL DRAWINGS



MATERIALS

| N° | Component | Material |
|----|----------------------|---------------------|
| 1 | Ferrule Cap | PE LD |
| 2 | Ferrules with Flange | Zirconia and Metal |
| 3 | Ring | Metal |
| 4 | Sleeve | Zirconia |
| 5 | Spring | Stainless Steel |
| 6 | Nut | Zinc Alloy |
| 7 | Body | Nickel Plated Brass |
| 8 | Rear Dust Cap | Vinyl |

The Product is **RoHS compliant**.

All the components of the attenuator are **UL94-V0 compliant** excluding the Rear Dust Caps **UL 94-V1**.

END OF SPECIFICATION