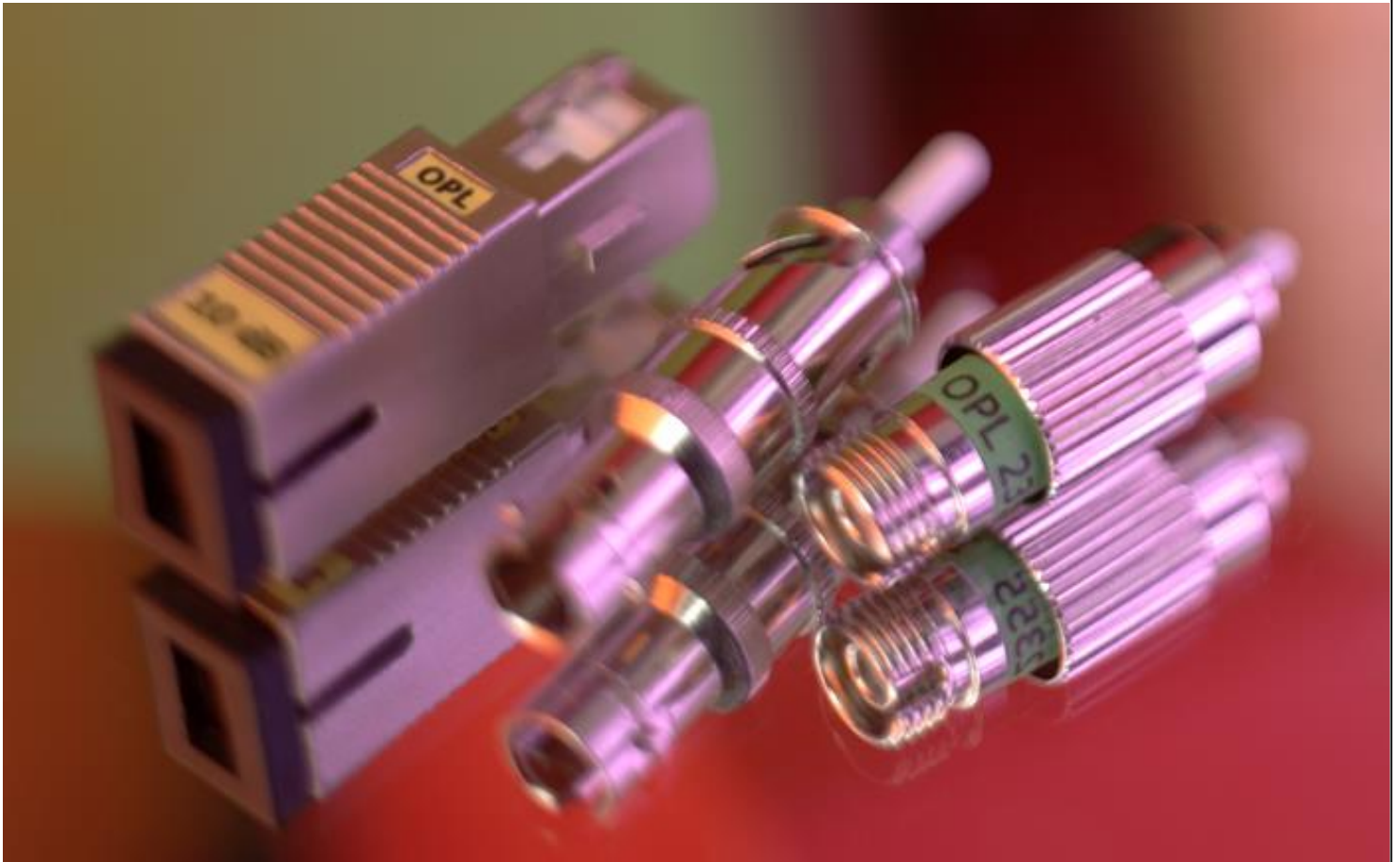
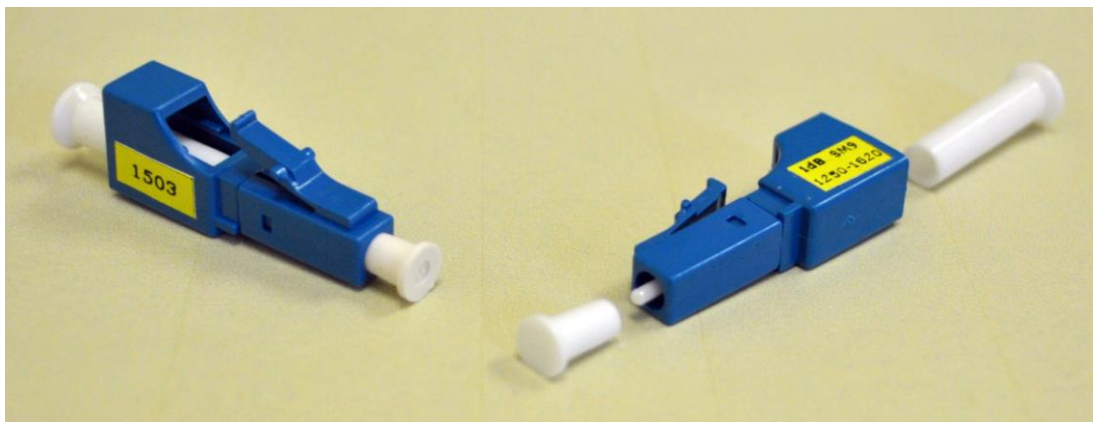


LC SM Plug-type Attenuator



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 LC SM Plug-type Attenuator.

MODELS AVAILABLE

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

- PC : blue housing, yellow label.
- APC : green housing, green label. For APC inquiries please contact our Sales Dept.

OPTICAL CHARACTERISTICS

Fibre	Long Attenuated Fibre with mode cladding suppression to eliminate modal noise present in the cladding.
Wavelength	1250 ÷ 1620 nm
Attenuation Values	1 ÷ 15 dB, 17 and 20 dB
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 [dB]

Nominal Value	Standard Tolerance	Narrow Tolerance
SM 1 ÷ 5	± 0.5	± 0.3
SM 6 ÷ 10	± 10 %	± 6 %
SM 11 ÷ 20	± 10 %	± 6 %

Return Loss [dB]

	PC (Grade 2)	UPC	APC (Grade 1)
SM	> 45	> 50	> 60

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	>500 connections	
Vibration	Frequency range: 10-55Hz Amplitude: 1.5mm 3 axis for 2 hours, 24 cycles (LC type)	Variation Range of the Attenuation +/- 0.5dB (1-10dB) +/- 5% (11-20dB)
Repeatability	Times of matching: 500 times (Plug in and pull out on both ferrule side and plug side for one matching)	+/- 0.5dB (1-10dB) +/- 5% (11-20dB)
Drop/free-fall	Dropping the specimen onto the steel plate from 1000 mm height for 3 times	+/- 0.5dB (1-10dB) +/- 5% (11-20dB)

The ferrules inside the attenuator are **spring loaded**, in order to fit the geometrical characteristics of all the transceivers available on the market

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

STANDARD PACKAGING

Information on the LC attenuator housing – see drawing below

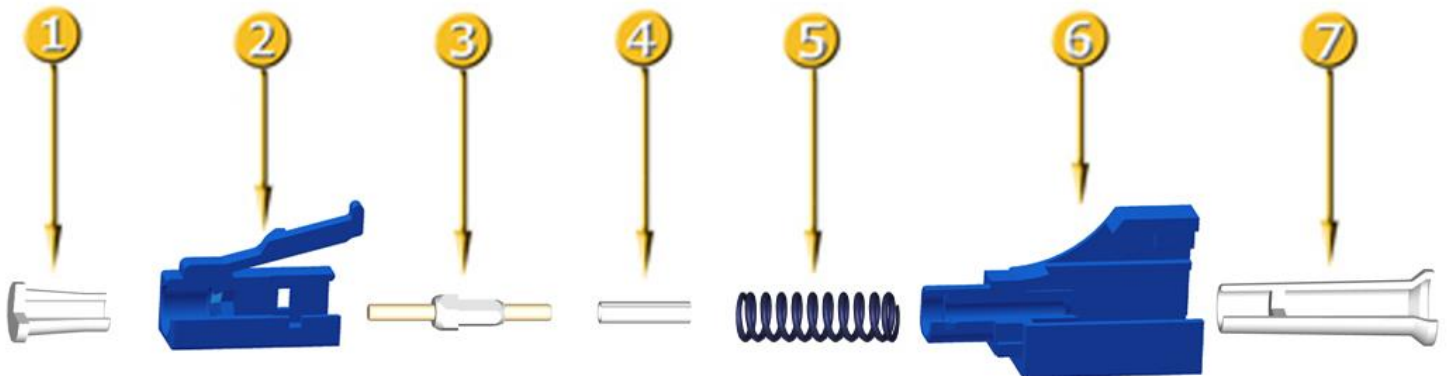
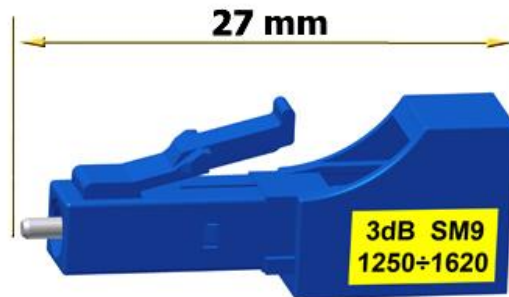
- Attenuation Value
- Fiber Type
- Serial Number
- Wavelength

Single packaging in transparent plastic bag with label - Information on the label as above.

Carton box 50 attenuators, label with product description and quantity.

No logo nor any Optoplast marking on the product and on the packaging.

TECHNICAL DRAWINGS



M A T E R I A L S

N°	Component	Material
1	Ferrule Cap	PP
2	Front Body	PEI ULTEM
3	Ferrules with Flange	Zirconia and Nickel Plated Brass
4	Sleeve	Zirconia
5	Spring	Stainless Steel
6	Rear Body	PEI ULTEM
7	Rear Dust Cap	PP

Optoplast products are **RoHS** and **REACH** compliant.

All the components of the attenuator are **UL94-V0 compliant**.

E N D O F S P E C I F I C A T I O N