

LEAD Fiber Optics PRODUCT CATALOGUE

OPTICAL TERMINATOR

Optical Terminator



Optical Terminators are used to terminate unused **fiber connector** ports in fiber optic systems so optical terminators unwanted reflections are not introduced back into the system. It is used in fiber optic network to install on the possibly unused ports. In fiber optic network there may be unused ports in the whole system, such unused ports will create unwanted return loss and degrade the whole network performance.

Structure of optical terminator

Optical Terminators are functional devices using Metal-Ion Doped Fibers. These products prevent the reflection of light that are present at open end systems. By using Metal-Ion Doped Fibers, these optical terminators convert the optical power into heat and the power is attenuated inside the devices. The structures of the plug type optical terminators are simple and the power-proof and performance stability is superior.

Plug type optical terminator

Plug type optical terminators are used to terminate dark fiber port on the fiber optic component. Their **ceramic ferrule** is polished with an angled or non-angled end face to reduce unwanted reflections from open ports. These optical terminator also provide improved personal safety over termination methods. Plug type optical terminator can also be used with **fiber adaptors** at the male plug end, They can be easily installed into panel mount receptacles to significantly reduce reflections from the fiber face.

LFO provide all types of plug type optical terminator including SC, FC, ST, LC and MU type connector with high quality Ceramic (Zirconia) Ferrules.

Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end face geometry per IEC proposal.
- Adapt attenuation point to create termination effect
- Stability against changes in external environmental condition such as dew condensation.

Applications

- Telecommunication networks
- Active device termination
- Instrumentation
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	> 40dB (min)
	APC	> 60dB (min)
Operating Temperature (°C)		-40°C ~ 75°C
Storage Temperature (°C)		-50°C ~ 85°C

Optical Terminator ordering information

TN

XX
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Connector type

11-ST
21-FC 22-FC/APC
31-SC 32-SC/APC
41-LC 42-LC/APC
51-MU
XX-Others, please specify

X
↓

Fiber type

1-9/125um(Single Mode)
2-50/125um(Multi Mode)
3-62.5/125um(Multi Mode)

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Wavelength

31-1310 nm
55- 1550 nm

LFO Optical Terminator Series



ST Optical Terminator

The ST plug-type optical terminations are used to terminate dark fiber ports on fiber optic components. It uses 2.5mm diameter ceramic ferrule with PC end-face to reduce un-wanted reflections from open ports. These terminations also provide improved personnel safety over other termination methods.



FC Optical Terminator

The FC plug-type optical terminations are used to terminate dark fiber ports on fiber optic components. It uses 2.5mm diameter ceramic ferrule with PC or APC end-face to reduce un-wanted reflections from open ports. These terminations also provide improved personnel safety over other termination methods.



SC Optical Terminator

The SC plug-type optical terminations are used to terminate dark fiber ports on fiber optic components. It uses 2.5mm diameter ceramic ferrule with PC or APC end-face to reduce un-wanted reflections from open ports. These terminations also provide improved personnel safety over other termination methods.



LC Optical Terminator

The LC plug-type optical terminations are used to terminate dark fiber ports on fiber optic components. It uses 1.25mm diameter ceramic ferrule with PC or APC end-face to reduce un-wanted reflections from open ports. These terminations also provide improved personnel safety over other termination methods.



MU Optical Terminator

The LC plug-type optical terminations are used to terminate dark fiber ports on fiber optic components. It uses 1.25mm diameter ceramic ferrule with PC end-face to reduce un-wanted reflections from open ports. These terminations also provide improved personnel safety over other termination methods.

ST Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end-face geometry per IEC proposal
- Adapt attenuation point to creating termination effect
- Stability against changes in external environmental condition

Applications

- Telecommunication Networks
- Instrumentation
- Active device termination
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	>40dB (min)
Operating Temperature, °C		-40°C ~ 75°C
Storage Temperature, °C		-50°C ~ 85°C

FC Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end-face geometry per IEC proposal
- Adapt attenuation point to creating termination effect
- Stability against changes in external environmental condition

Applications

- Telecommunication Networks
- Instrumentation
- Active device termination
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	> 40dB (min)
	APC	> 60dB (min)
Operating Temperature, °C		-40°C ~ 75°C
Storage Temperature, °C		-50°C ~ 85°C

SC Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end-face geometry per IEC proposal
- Adapt attenuation point to creating termination effect
- Stability against changes in external environmental condition

Applications

- Telecommunication Networks
- Instrumentation
- Active device termination
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	> 40dB (min)
	APC	> 60dB (min)
Operating Temperature, °C)		-40°C ~ 75°C
Storage Temperature, °C		-50°C ~ 85°C

LC Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end-face geometry per IEC proposal
- Adapt attenuation point to creating termination effect
- Stability against changes in external environmental condition

Applications

- Telecommunication Networks
- Instrumentation
- Active device termination
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	> 40dB (min)
	APC	> 60dB (min)
Operating Temperature ,°C		-40°C ~ 75°C
Storage Temperature ,°C		-50°C ~ 85°C

MU Optical Terminator

Features

- Optical performance 100% factory tested
- Easy installation as plug type
- Precision ceramic ferrule with end-face geometry per IEC proposal
- Adapt attenuation point to creating termination effect
- Stability against changes in external environmental condition

Applications

- Telecommunication Networks
- Instrumentation
- Active device termination
- CATV Networks
- EDFA



Specifications

ITEM		VALUES
Operating Wavelength (nm)		1310nm or 1550nm
Return Loss	PC	40dB (min)
Operating Temperature, °C		-40°C ~ 75°C
Storage Temperature , °C		-50°C ~ 85°C

DYSFO

ShenZhen DYS Fiber optic Technology Co.,Ltd

Tel: 86-0755-29518585, 29650336 Fax : 86-0755-29510505 PC/ZIP: 518133

Add: 2/F, 7 Building, Tangtou Industrial Zone 3rd, Shiyan Town, BaoAn District, Shenzhen, P.R China

