

Single Mode Coaxial Fiber Collimator 1550nm



● Product Description

Also known as unbiased fiber collimator, the conventional fiber collimator has poor positional accuracy between the optical axis and the mechanical outer circle, that is, there are errors such as position deviation and angle between the optical axis and the mechanical center axis of the collimator, which makes the collimator unable to be used in the plug-in connector and rotating state. Unbiased fiber collimator is a good solution. The optical axis and the mechanical axis basically coincide, so that the collimator does not need precise adjustment when used in pairs. Just align the outer circles of the two fiber collimators to obtain a smaller optical path insertion loss. The product has good interchangeability, which greatly improves installation efficiency and reduces the difficulty of manual adjustment.

● Part Number

NIR-CLM-1550-0.35-4-G652A1

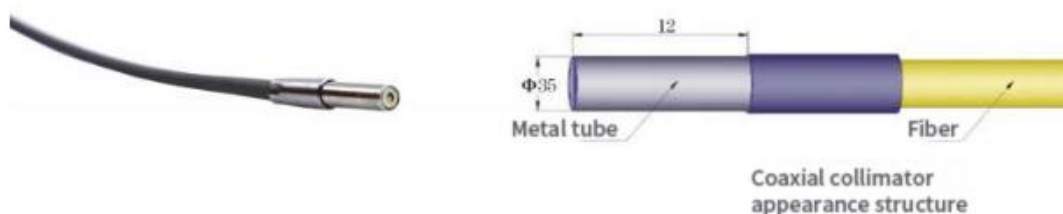
● Product features

High-precision packaging case、 Plug-in and low-loss、 Non-contact optical signal transmission、 Long service life

● Application area

Fiber optic rotary connector 、 Fiber optic beam expansion connector 、 Photoelectric hybrid slip ring 、 Fiber optic rotary pan-tilt optical current transformer、 Plug-and-play optical collimation link

● Dimensional Drawing



Parameters

Single mode coaxial fiber collimator												
Central wavelength	Working distance	Beam waist spot	Point accuracy	Beam divergence	Package diameter	Connector	Fiber type	Fiber length	Matching loss	Rotation variation	Return loss	Mode field diameter
1310nm	0-20mm	0.35mm	<0.1°	<4mrad	3.5mm	FC/APC	G652A1	1.0m	≤1.5dB	±0.5dB	≥50dB	9.2 ± 0.4μm
1550nm	0~20mm	0.38mm	<0.1°	<4mrad	3.5mm	FC/APC	G652A1	1.0m	≤1.5dB	±0.5dB	≥50dB	10.1 ± 0.4μm

Multimode coaxial fiber collimator												
Central wavelength	Working distance	Beam waist spot	Point accuracy	Beam divergence	Packaging diameter	Connector	Fiber type	Fiber length	Matching loss	Rotation variation	Return loss	Mode field diameter
650nm	0~80mm	0.8mm	<0.1°	<9mrad	3.5mm	FC/PC	62.5/125	1.0m	≤1.0dB	±0.5dB	≥35dB	62.5±2.5μm
850nm	0-80mm	0.75mm	<0.1°	<9mrad	3.5mm	FC/PC	62.5/125	1.0m	≤1.0dB	±0.5dB	≥35dB	
1310nm	0-80mm	0.7mm	<0.1°	<12mrad	3.5mm	FC/PC	62.5/125	1.0m	≤1.0dB	±0.5dB	≥35dB	
1550nm	0-80mm	0.7mm	<0.1°	<12mrad	3.5mm	FC/PC	62.5/125	1.0m	≤1.0dB	±0.5dB	≥35dB	

Optional parameters

Packaging material type	Non-magnetic metal, non-metal, stainless steel
Connector type Sheath type	FC/PC、FC/APC、ST、SMA
Sheath type	0.9mm/2.0mm/3.0mmPVC Sheath 3.0mm Armored cable 3.0mm Military optical cable

