

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.

● Product features

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

● Part Number

MP-CLM-1550-0.37-20-SCF-A

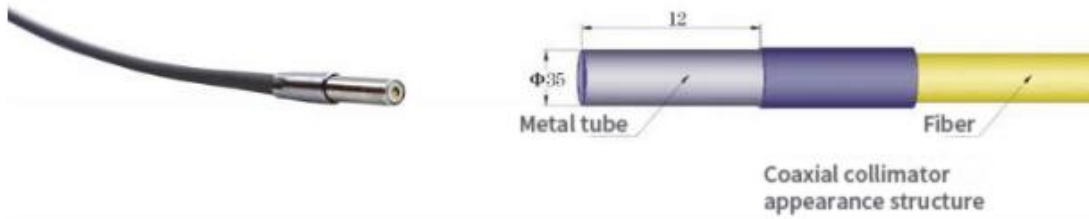
● Application area

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

● Core parameters

Wavelength	Working Distance	Divergence Angle
1500nm	0-20mm	<5.5mrad

● Dimension Drawing



● General Parameters

Parameters

Wave length	Working Distance	Waist Beam	Deflection Angle	Divergence Angle	Package Dia.	Fiber Type	IL for a Pair	Return Loss
1310 nm	0-20mm	0.36mm	<math><0.1^\circ</math>	<math><5\text{mrad}</math>	3.5mm	G625	\leq	\geq
	10-50mm	0.38mm	<math><0.1^\circ</math>	<math><5.5\text{mrad}</math>	3.5mm	D		
	50-80mm	0.43mm	<math><0.1^\circ</math>	<math><4.5\text{mrad}</math>	3.5mm	G657		
1550 nm	0-20mm	0.36mm	<math><0.1^\circ</math>	<math><5.5\text{mrad}</math>	3.5mm	A1	1.5dB	50dB
	10-50mm	0.38mm	<math><0.1^\circ</math>	<math><6\text{mrad}</math>	3.5mm	G657		
	50-80mm	0.43mm	<math><0.1^\circ</math>	<math><4.5\text{mrad}</math>	3.5mm	A2		
850nm	0-20mm	0.75mm	<math><0.1^\circ</math>	<math><9\text{mrad}</math>	3.5mm	OM2-	\leq	\geq
1300 nm	0-20mm	0.7mm	<math><0.1^\circ</math>	<math><12\text{mrad}</math>	3.5mm	OM4	1.2dB	25dB

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

