

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

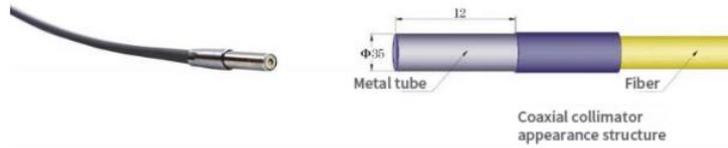
● Application area

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

| Wavelength | Working Distance | Waist Beam | Deflection Angle | Divergence Angle | Package Dia. | Fiber Type | IL for Pair | Return Loss |
|------------|------------------|------------|------------------|------------------|--------------|-------------|-------------|-------------|
| 1310 nm | 0-20mm | 0.36mm | <0.1° | <5mrad | 3.5mm | G625 D G657 | ≤ 1.5dB | ≥ 50dB |
| | 10-50mm | 0.38mm | <0.1° | <5.5mrad | 3.5mm | | | |
| | 50-80mm | 0.43mm | <0.1° | <4.5mrad | 3.5mm | | | |
| 1550 nm | 0-20mm | 0.36mm | <0.1° | <5.5mrad | 3.5mm | A1 G657 A2 | ≤ 1.5dB | ≥ 50dB |
| | 10-50mm | 0.38mm | <0.1° | <6mrad | 3.5mm | | | |
| | 50-80mm | 0.43mm | <0.1° | <4.5mrad | 3.5mm | | | |

| | | | | | | | | |
|--------|--------|--------|-------|---------|-------|-------------|-------|------|
| 850nm | 0-20mm | 0.75mm | <0.1° | <9mrad | 3.5mm | OM2- OM4 | ≤ | ≥ |
| 1300nm | 0-20mm | 0.7mm | <0.1° | <12mrad | 3.5mm | | 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 |

