

# Polarization-Maintaining Pigtailed Fiber Collimators

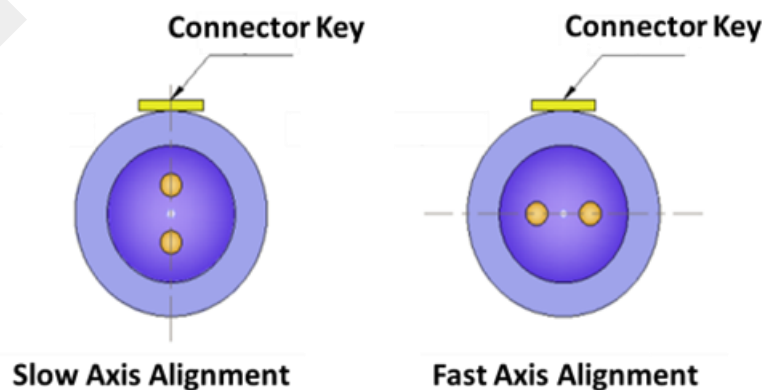
Polarization-Maintaining fiber collimators can ensure the linear polarization direction remains unchanged by using polarization-maintaining fiber. It improves the signal-to-noise ratio in interferometric measurement.



## Schematic Diagram of Polarization-Maintaining Pigtailed Fiber Collimators



### Fiber Collimator



### Fiber Connector

# Polarization-Maintaining Pigtailed Fiber Collimators

## 100mm Working Distance PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. (μm)	Fiber Type
635	±20	100	0.39	2.6	Ø3.4	≥18	<0.5	≥55	4.5±0.5	PM630-HP
780	±20	100	0.41	2.4	Ø3.4	≥18	<0.5	≥55	5.2±1.0	PM780-HP
850	±20	100	0.37	3	Ø3.4	≥18	≤0.5	≥55		
980	±20	100	0.5	2.5	Ø3.4	≥20	<0.35	≥55	6.6±0.5	PM980-XP
1064	±20	100	0.51	2.7	Ø3.4	≥20	≤0.35	≥55		
1310	±20	100	0.4	4.2	Ø3.4	≥20	≤0.35	≥55	9.3±0.5	PM1300-XP
1550	±20	100	0.45	4.4	Ø3.4	≥20	≤0.35	≥55	10.1±0.5	PM1550-XP

## 300mm Working Distance PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. (μm)	Fiber Type
635	±20	300	0.85	1	Ø3.4	≥18	<0.5	≥55	4.5±0.5	PM630-HP
780	±20	300	0.75	1.3	Ø3.4	≥18	<0.5	≥55	5.2±1.0	PM780-HP
850	±20	300	0.97	1.1	Ø3.4	≥18	≤0.5	≥55		
980	±20	300	0.96	1.3	Ø3.4	≥20	<0.35	≥55	6.6±0.5	PM980-XP
1064	±20	300	0.9	1.5	Ø3.4	≥20	≤0.35	≥55		
1310	±20	300	0.8	2.1	Ø3.4	≥20	≤0.35	≥55	9.3±0.5	PM1300-XP
1550	±20	300	0.86	2.3	Ø3.4	≥20	≤0.35	≥55	10.1±0.5	PM1550-XP

# Polarization-Maintaining Pigtailed Fiber Collimators

## 1000mm Working Distance PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. (μm)	Fiber Type
635	±20	1000	1.32	0.7	Ø4.0	≥18	≤0.5	≥55	4.5±0.5	PM630-HP
780	±20	1000	1.55	0.7	Ø4.0	≥18	<0.5	≥55	5.2±1.0	PM780-HP
850	±20	1000	1.51	0.75	Ø4.0	≥18	≤0.5	≥55		
980	±20	1000	1.48	0.87	Ø4.0	≥20	≤0.35	≥55	6.6±0.5	PM980-XP
1064	±20	500	1.43	0.95	Ø4.0	≥20	≤0.35	≥55		
1310	±20	1000	1.2	1.4	Ø4.0	≥20	<0.35	≥55	9.3±0.5	PM1300-XP
1550	±20	1000	1.3	1.5	Ø4.0	≥20	≤0.35	≥55	10.1±0.5	PM1550-XP

## 0~100mm Wide WD Range PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. (μm)	Fiber Type
633	±20	0-100	0.39	2.6	Ø3.4	≥18	≤0.5	≥55	4.5±0.5	PM630-HP
780	±20	0-100	0.39	2.6	Ø3.4	≥18	<0.5	≥55	5.2±1.0	PM780-HP
850	±20	0-100	0.37	3	Ø3.4	≥18	≤0.5	≥55		

## 0~350mm Wide WD Range PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. (μm)	Fiber Type
780	±20	0-350	1.05	0.95	Ø3.4	≥18	≤0.5	≥55	5.2±1.0	PM780-HP
850	±20	0-350	1.02	1.05	Ø3.4	≥18	<0.5	≥55		
980	±20	0-350	0.99	1.26	Ø3.4	≥20	≤0.35	≥55	6.6±0.5	PM980-XP
1064	±20	0-350	1	1.35	Ø3.4	≥20	≤0.35	≥55		
1310	±20	0-350	0.81	2.06	Ø3.4	≥20	≤0.35	≥55	9.3±0.5	PM1300-XP
1550	±20	0-350	0.92	2.15	Ø3.4	≥20	≤0.35	≥55	10.1±0.5	PM1550-XP

# Polarization-Maintaining Pigtailed Fiber Collimators

## 50~850mm Wide WD Range PM Pigtailed Fiber Collimators

Wavelength (nm)	Bandwidth (nm)	WD (mm)	Waist Beam (mm)	Div. Angle (mrad)	Package Dia. (mm)	Extinction Ratio (dB)	Output Loss (dB)	Return Loss (dB)	Mode-Field Dia. ( $\mu\text{m}$ )	Fiber Type
980	$\pm 20$	50-850	1.54	0.81	$\varnothing 4.0$	$\geq 20$	$\leq 0.35$	$\geq 55$	6.6 $\pm$ 0.5	PM980-XP
1064	$\pm 20$	50-850	1.6	0.85	$\varnothing 4.0$	$\geq 20$	$\leq 0.35$	$\geq 55$		
980	$\pm 20$	50-850	1.54	0.81	$\varnothing 4.0$	$\geq 20$	$\leq 0.35$	$\geq 55$	6.6 $\pm$ 0.5	PM980-XP
1310	$\pm 20$	50-850	1.27	1.31	$\varnothing 4.0$	$\geq 20$	$\leq 0.35$	$\geq 55$	9.3 $\pm$ 0.5	PM1300-XP
1550	$\pm 20$	50-850	1.45	1.36	$\varnothing 4.0$	$\geq 20$	$\leq 0.35$	$\geq 55$	10.1 $\pm$ 0.5	PM1550-XP