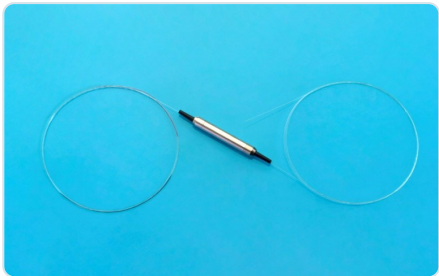


Single Mode Fibre Optic Couplers

Precision optical coupling for reliable single-mode signal distribution

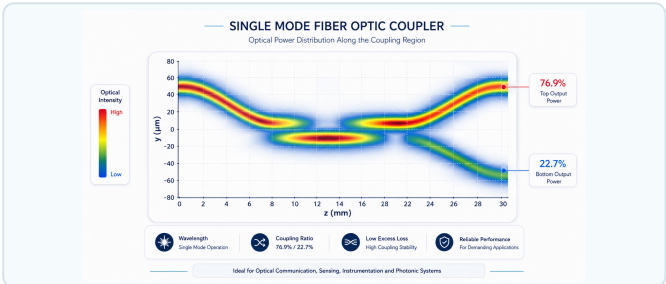


PRODUCT OVERVIEW

Maxer Photonics Single Mode Fibre Optic Couplers are designed for efficient and stable distribution of optical signals within single-mode fiber systems. These couplers provide controlled optical power splitting with low insertion loss and consistent performance across demanding communication, sensing, and photonic measurement applications.

KEY FEATURES

- Low insertion loss
- Stable optical coupling
- Single-mode operation
- High coupling consistency
- Compact fiber-optic design
- Suitable for communication, sensing and instrumentation systems



Representative optical power distribution along the coupling region (illustrative)

SPECIFICATIONS

PARAMETER	A GRADE	B GRADE	UNIT
Fibre Configuration	1×2 or 2×2		—
Operating Wavelength	1310, 1550 or Other		nm
Bandwidth	±50		nm
Excess Loss	0.08	0.15	dB
Splitting Ratio	50/50 – 1/99		%
Splitting Ratio Error	2		%
Directivity	> 55		dB
Optical Power Handling	< 500		mW
Operating Temperature Range	–40 ~ 70 or –5 to 70		°C
Storage Temperature	–55 ~ 85		°C
Fibre Type	SM or HI-1060		—
Package Dimension	Φ3.0 x 35		mm

ORDERING INFORMATION

SMC / ① - ② - ③ - ④ - ⑤ - ⑥ - ⑦

① PORT	② OPERATING WAVELENGTH	③ COUPLING RATIO	④ FIBRE TYPE	⑤ FIBRE DIAMETER	⑥ FIBRE LENGTH	⑦ CONNECTOR
1:1x2	106:1064nm	50:50/50	S:SMF-28	2:250μm	1:0.8 m	00:Bare Fiber
2:2x2	13:1310nm	40:40/60	H:HI-1060	9:900μm	2:1.0 m	FC:FC/PC
3:3x3	15:1550nm	30:30/70	X:XX	2:2.0mm	X:XX	SA:SC/PC
—	X:XX	X:XX	—	3:3.0mm	—	LP:LC/PC

Note 1: IL and RL values specified are without connector loss.

Note 2: Specifications are subject to change without notice.