

## 4C Multicore Fiber Single Fanouts

Multicore Fiber (MCF) fan-outs provide the ability to launch and retrieve signals to and from individual fiber cores.

### Applications:

- 2D bend sensing
- Active Optical Cables (AOCs)
- Photonic Integrated Circuits
- Distributed sensing
- Next-generation optical amplifiers
- Downhole sensing in oil exploration applications
- Pipeline monitoring

### Specifications:

Parameter	FAN-4C
MCF Fiber Type	YOFC MCF-4-42/125/250(SM)
Operating Wavelength	1310/1550nm
Cut-Off Wavelength	< 1300nm
Mode Field Diameter	8.9±0.5@1310nm/9.8±0.5@1550nm
Core-to-Core Spacing	41.5μm
Single Fanouts Insertion Loss	≤0.6dB
Crosstalk (dB)	>55dB
Return Loss	>55dB
Core Configuration	Square
Single Mode Fiber Type	Corning LBL(G657A2) fiber
MCF Fiber Length	1+/-0.05m
SMF Fiber Length	1+/-0.05m
Pigtail type	0.9mm loose tube ,MCF:Black,SMF:White
Package Dimensions	φ3x28mm (φ2.5x18mm Bare Fiber)
Operating Temperature (°C)	0-75°C
Connectorization	SMF: FC/APC (narrow keyway) MCF: None

### 4C MCF Single Fanouts-FC/APC

