

## Multicore Fiber 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

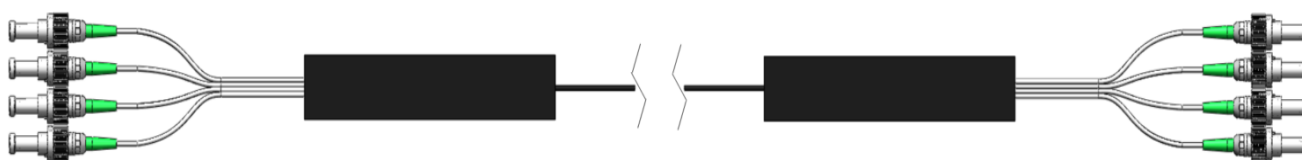
### Specifications:

Parameter	FAN-4C	FAN-7C	
MCF Fiber Type	Fibercore SM-4C1500(8.0/125)	Fibercore SM-7C1250(5.2/125)	Fibercore SM-7C1500(6.1/125)
Operating Wavelength	1520 – 1650nm	1310nm	1520-1650nm
Cut-Off Wavelength	1300-1500nm	1190-1310nm	1300-1500nm
Numerical Aperture	0.14-0.17	0.2-0.22	
Mode Field Diameter	7.4-8.5@1550nm	4.8-5.6@1310nm	5.7-6.5@1550nm
Core-to-Core Spacing	50	35	
Single Fanouts Insertion Loss	1 (typical)	1-2 (typical)	1 (typical)
Fanout pairs Insertion Loss	≤2dB	≤3.8dB	≤2.8 dB
Crosstalk (dB)		>45dB	
Return Loss		>55dB	
Core Configuration	Square	Hexagon plus central core	
Single Mode Fiber Type	Corning SMF28 Ultra 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	60x7x4mm		
Operating Temperature (°C)	0-75°C		
Connectorization	Single core: None, FC/PC,FC/APC, LC/PC, LC/APC, SC/PC, SC/APC Multicore: None, FC/PC (narrow keyway)		

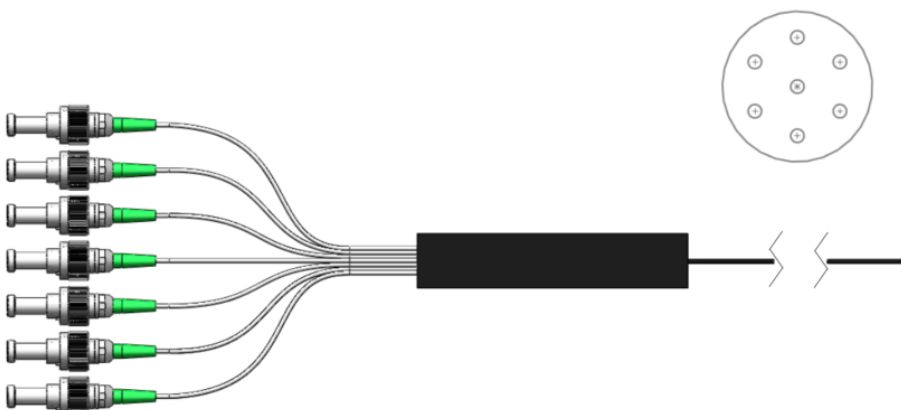
### 4C MCF Single Fanouts-FC/APC



### 4C MCF Fanout pairs-FC/APC



### 7C MCF Single Fanouts-FC/APC



### 7C MCF Fanout pairs-FC/APC

