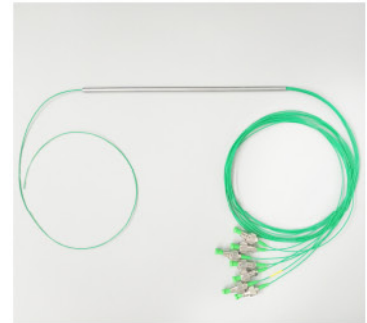


Space Division Multiplexing Module

Multi-core Fibre Fan-in & Fan-out Module

Multi-core fibre fan-in and fan-out module is a module to realize the high coupling efficiency between the multi-core fibre and single-mode fibres, to realize the channel space division multiplexing and demultiplexing function in the applications. The optical fibre tapering technology is used to realize the optical power coupling between multi-core fibre and single mode fibres with low insertion loss, low core crosstalk and high return loss. YOFC multi-core fibre fan-in and fan-out module adopts seven channel structure, with YOFC's multi-core fibre(MCF), a complete communication and sensor system can be built, which means a broad application prospect.



Characteristics

- Encapsulated in metal tube
- Low and consistent insertion loss
- Ultra low crosstalk
- FC/PC, FC/APC or bare fibre

Specifications

Module Type	FAN-7-42		
Type Description	Seven Cores Fibre Fan-in & Fan-out Module		
Optical Properties	Value	Typical	
Average Insertion Loss (dB)	< 1.5	1.0	
Max.Insertion Loss (dB)	< 2.0	1.5	
Return Loss (dB)	> 45	50	
Crosstalk Index-Adjacent Core (dB)	< -50	-55	
Geometrical Properties			
Multi-core Pigtail Length (m)	> 1.0	1.5	
Single-mode Pigtail Length (Bare Fibre) (m)	> 1.0	2.0	
Single-mode Pigtail Length (Patch-cord) (m)	> 0.5	1.0	
Encapsulation Box Description			
Box Size (mm)	Φ4×180		
Operating Temperature (°C)	-40 to +70		