

Coupling Single-mode Fibre(CSF)

YOFC single-mode coupled fibres are particularly developed for fused taper coupler application. Fabricated with patented Plasma Chemical Vapor Deposition (PCVD) process, YOFC coupler fibre offers excellent uniformity, precise geometry and good optical performance. Special optical structure and dual acrylate coating system ensures high mechanical strength and insensitivity to bending. This fibre is also an ideal option for application in near-infrared communication devices and sensors.

Characteristics

- Tight geometric control
- Superior mechanical protection by dual acrylate coating system
- Ultra-low bending loss
- Low attenuation
- Low insertion loss
- Low splice loss
- Excellent consistency and reliability

Application

- Optical fibre couplers, splitters and combiners
- Component fibre for optical fibre lasers, EDFAs and DWDM system
- Pump laser pigtails
- Gratings
- Fibre sensors and gyroscope
- Low-loss fused optical devices for C/L band application

Specifications

Fibre Type	CS 1060_125-14/250	CS 1310_125-16/250	CS 980_125-16/250	CS 980_125-22/250	CS 980/80-20/165
Part No.	CS1016-A	CS1011-A	CS1015-A	CS1015-C	CS1015-D
Operation Wavelength(nm)	980/1060	1310/1550	980/1550	980/1550	980/1550
Mode-field Diameter(μm)	5.9 \pm 0.5@980nm	6.0 \pm 0.5@1310nm	5.0 \pm 0.5@980nm	4.0 \pm 0.5@980nm	4.0 \pm 0.5@980nm
	6.2 \pm 0.5@1060nm	7.1 \pm 0.5@1550nm	7.5 \pm 0.5@1550nm	6.3 \pm 0.5@1550nm	6.5 \pm 0.5@1550nm
Cutoff Wavelength(nm)	920 \pm 50	1240 \pm 50	920 \pm 50	920 \pm 50	920 \pm 50
Attenuation(dB/km)	\leq 2.1@980nm	\leq 0.75@1310nm	\leq 2.5@980nm	\leq 2.5@980nm	\leq 2.5@980nm
	\leq 1.5@1060nm	\leq 0.75@1550nm	\leq 1.0@1550nm	\leq 1.0@1550nm	\leq 1.0@1550nm
Bending-loss	Φ 20mm O.D. (dB/turn)	980nm		\leq 0.01	\leq 0.01
		1310nm	\leq 0.01		
		1550nm	\leq 0.01		\leq 0.01
	Φ 30mm O.D. (dB/turn)	980nm		\leq 0.01	
1550nm			\leq 0.08		
Numerical Aperture	0.14	0.16	0.16	0.22	0.20
Core Diameter (μm)	5.1	5.5	4.4	3.5	3.6
*Cladding Outside Diameter (μm)	125 \pm 0.5	125 \pm 0.5	125 \pm 0.5	125 \pm 0.5	80 \pm 1
Coating Outside Diameter (μm)	245 \pm 7	245 \pm 7	245 \pm 7	245 \pm 7	165 \pm 5
Core-to-Cladding Offset (μm)	\leq 0.5	\leq 0.5	\leq 0.5	\leq 0.5	\leq 0.5
Proof Test Level (kpsi)	100 or 200	100 or 200	100 or 200	100 or 200	100 or 200
Operating Temperature($^{\circ}\text{C}$)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85

* Coupler fibres with cladding diameter of 80 μm are also available.

www.yofc.com



This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information