

Multimode Fiber

Application

High power laser transmission, laser medical, spectral analysis, laser welding, lighting, sensing element, energy transmission.

Property

HCS silica, PCS silica, PMMA fiber

Introduction

Form no: DAT-001-01

EGISMOS fiber optic cables can be made in different lengths up to several hundred meters. Different types of connectors, such as SMA905, ST or FC/PC connectors can be applied. Fibers are also available for different light sources like lasers or LEDs and for wide range of wavelengths like Deep UV fibers, UV/VIS fibers and VIS/NIR fibers. Different shielding for higher temperature and more custom solutions with custom optics can be used for many industrial and medical applications

Date: 2013/08/13



Multimode Fiber Key Features

Operating Wavelength λ = 250 $^{\sim}$ 1600 nm Core diameter = 200 um, 1000 um Material = Silica, PMMA

Specifications(typical @tc=25°C)								
Item	FB02H1MA	FB02S1MA	FB10P1MA	Unit	Condition			
Fiber Type		Multimode						
Fiber Core Material	HCS Silica	PCS Silica	PMMA					
Operating Wavelength		250 ~ 1600	nm					
Maximum Attenuation			≦200@570 nm	dB/km				
Numerical Aperture	0.21~0.24	0.37~0.39	0.5					
Bandwidth				MHz.km				
Group Refractive Index								
Fiber Core Diameter	200±5		1000±10	um	*1. Can be custmized			
Core Non-Circularity	≦5			%				



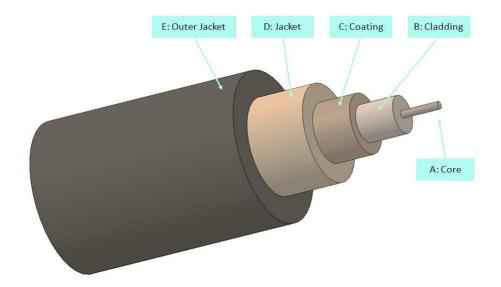
EGISMOS	Mul	timode Fiber	Silica/PMMA Series		
Item	FB02H1MA	FB02S1MA	FB10P1MA	Unit	Condition
Core/Cladding Concentricity	≦3		≦15	um	
Cladding Diameter	230±5		1035±15	um	
Cladding Non-Circularity	≦2			%	
Coating Diameter	500±30		1400±50	um	
Cladding/Coating Concentricity	≦ 12		≦50	um	
Jacket Diameter	900		1800	um	
Cable Jacket	3			mm	PVC
Fiber Pigtail Length	1			m	can be customized (0.3~15)
Connector		SMA905		can be customized (FC,ST,SC)	
Operating Temp.	-40~+85			°C	
Storage Temp.	-40~+85			°C	
Storage Humidity	0~90			%	
Fiber Bend Radius	≥100D(short time) ≥300D(long time)		≧8D ≥15D	mm	D:core diameter
Proof Test	100			kpsi	
Mean Time Before	2000			hr	



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Failure





- (A) 200 um for FB02H1MA and FB02S1MA, 1000 um for FB10P1MA
- (B) 230 um for FB02H1MA and FB02S1MA, 1035 um for FB10P1MA
- (C) 500 um for FB02H1MA and FB02S1MA, 1400 um for FB10P1MA
- (D) 900 um for FB02H1MA and FB02S1MA, 1800 um for FB10P1MA
- (E) 3 mm

Specifications are subject to change without notice.



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