

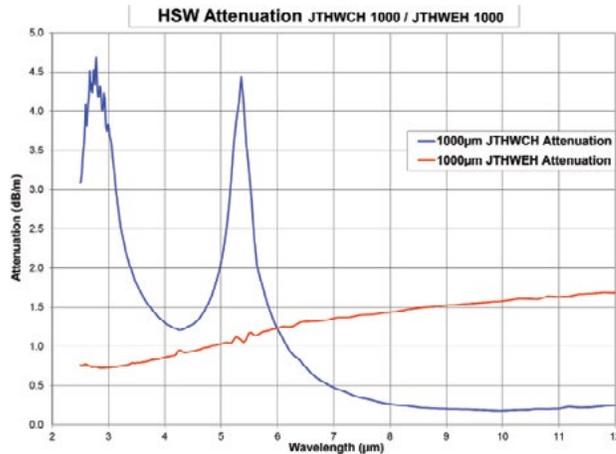
Polymicro Technologies™ MediSpec™ Hollow Silica Waveguide With Aiming Beam Technology

molex®

Providing a safer and easier-to-use laser solution, industry-leading Polymicro Technologies™ MediSpec™ Hollow Silica Waveguide With Aiming Beam Technology integrates delivery of power and beam alignment in a single lightweight fiber



Polymicro Technologies™ MediSpec™
Hollow Silica Waveguide With Aiming
Beam Technology



Specifications

REFERENCE INFORMATION

Packaging: Spool
Designed In: Millimeters

PHYSICAL

Material — Tubing: Synthetic Fused Silica
Material — Coating: Tefzel* Biocompatible Jacket
Proof Tested @ Minimum 100kpsi: 100% for Strength

Description	Internal Diameter	Glass Outer Diameter	Buffer Outer Diameter	Straight Loss (dB/m max.) @ 10.6µm CO ₂ Hollow Waveguide with Tefzel Jacket	Bend Loss** (dB max.) @ 10.6µm CO ₂ Hollow Waveguide with Tefzel Jacket
JTHWCH5006801040	500µm ±25	650µm ±20	1040µm ±30	0.8	1.5
JTHWCH7509801300	750µm ±30	950µm ±25	1300µm ±50	0.5	1
JTHWCH100013301550	1000µm ±50	1300µm ±25	1550µm ±60	0.5	1

NOTE: The end manufacturer is responsible for bio-compatibility and sterilization testing and validation studies.

* Tefzel is a trademark of E. I. Du Pont de Nemours and Company

** Bend loss in 360° 40cm diameter loop

Features and Benefits

Dual transmission of laser-power delivery and visible aiming beam in a single optical fiber	Reduces cable bulk over typical two-fiber solutions. Decreases chance for laser burns due to lack of precision
Hollow Silica Waveguide (HSW) optimized for mid-infrared (IR) wavelengths	Results in lighter, improved ergonomics for applications using carbon (CO ₂) and Er:YAG lasers
500, 750 and 1000µm inner diameters (ID)	Allows for a wide range of laser-power solutions
Tefzel* biocompatible jacket material	Withstands ethylene oxide (EtO) sterilization for invasive medical procedures
Terminations upon request, using SMA, ST and FC connectors	Provides flexibility with multiple connector interface options

Applications

Medical/Lasers

Surgery
Therapeutic



Ordering Information

Series No.	Component	Inner Diameter (µm)	Glass Outer Diameter (µm)	Buffer Outer Diameter (µm)
106806	Polymicro Technologies™ MediSpec™ Hollow Silica Waveguide With Aiming Beam Technology	500, 750, 1000	680, 980, 1330	1040, 1300, 1550
Contact Molex	Customizable Hollow Silica Waveguide for CO ₂ and Er:YAG Lasers	Not applicable		

www.molex.com/link/hswaimingbeam.html