

Products Home / Optical Fiber & Fiber Patch Cables / Multimode Optical Fiber / 0.39 NA TECS-Clad Multimode Optical Fiber, Step Index

0.39 NA TECS-Clad Multimode Optical Fiber, Step Index

TECS Hard Polymer Cladding for Durability and Reduced Static Fatigue

300 - 1200 nm or 400 - 2200 nm Operating Wavelength Range

Ideal for Spectroscopy, Optogenetics, and Medical Diagnostics

FT1000UMT

300 - 1200 nm,
Ø1000 µm Core

FT400EMT

400 - 2200 nm,
Ø400 µm Core

FT200EMT

400 - 2200 nm,
Ø200 µm Core

TECS Multimode Fiber Cross Section

Silica Core

TECS Hard Polymer Cladding

Tefzel Buffer

Related Items

Multimode Patch Cables

Other MM Fiber Options

MM Connectors

Bare Fiber Terminator

OverviewSpecsMM Fiber TutorialDamage ThresholdLab FactsFeedbackMM Fiber Selection

Features

- Low-OH and High-OH Versions for Different Spectral Ranges
 - High OH for 300 - 1200 nm
 - Low OH for 400 - 2200 nm
- Hard Clad Silica Core Multimode Optical Fiber
- TECS Hard Fluoropolymer Cladding for Durability and Low Static Fatigue in Humid Conditions

We are pleased to reintroduce the popular Technology Enhanced Clad Silica (TECS) multimode fibers developed by 3M® and now manufactured by Thorlabs. These 0.39 NA Low OH or High OH, Hard-Clad Silica Multimode fibers exhibit impressive performance and transmission from the Vis to NIR (400 to 2200 nm for Low OH) or UV to the NIR (300 to 1200 nm for High OH).

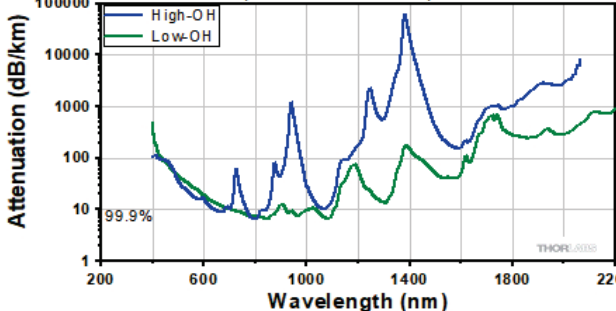
These fibers feature a TECS cladding, which increases the fiber's strength, reduces static fatigue, and protects the fiber during stripping. Strong bonding of silica to TECS cladding prevents pistoning and provides more stable terminations. These fibers are ideal for applications including spectroscopy, optogenetics, and medical diagnostics. TECS cladding is removable with acetone.

0.39 NA multimode fibers are available from stock as Fiber Optic Patch Cables in many configurations. Click on the [More \(+\)](#) link in Table 1.1 to view stock patch cable options. Custom cables are also available. Click on the [Custom Fiber Patch Cables](#) box for more information.

Table 1.1 Stock Patch Cables Available with These Fibers [More \(+\)](#)

Typical Multimode Fiber Attenuation

0.39 NA, Hard Clad Silica, TECS-Clad



Click [Here](#) for Details

Click [Here](#) for Raw Data

Custom Fiber Patch Cables

Fiber Manufacturing

Alternate Numerical Aperture Step-Index Fibers

[0.1 NA Small-Core Fibers](#)

[0.22 NA High- and Low-OH Fibers](#)

0.39 NA High- and Low-OH Fibers

[0.50 NA High- and Low-OH Fibers](#)

Ø200 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA											
Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding	Coating	Stripping Tool	Proof Test	
FT200UMT	300 - 1200 nm		High OH	200 ± 5 µm	225 ± 5 µm	500 ± 30 µm	Pure Silica / TECS Hard Cladding	Tefzel	T12S21	≥100 kpsi	
FT200EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	

Cytek Exhibit No. 1095

Page 001

FT200UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	14 dB/km	20 MHz*km	1.0 MW	0.2 kW	5 µm	21 mm	42 mm	-65 - 135 °C
FT200EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
			FT200UMT 0.39 NA, Ø200 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$1.82 Per Meter Volume Pricing	In Stock Overseas
			FT200EMT 0.39 NA, Ø200 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$1.96 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

Add To Cart

Ø300 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding		Coating	Stripping Tool	Proof Test
FT300UMT	300 - 1200 nm		High OH	300 ± 6 µm	325 ± 10 µm	650 ± 30 µm	Pure Silica / TECS Hard Cladding		Tefzel	T16S31	≥100 kpsi
FT300EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT300UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	14 dB/km	15 MHz•km	2.3 MW	0.5 kW	5 µm	32 mm	64 mm	-65 - 135 °C
FT300EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
			FT300UMT 0.39 NA, Ø300 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$2.97 Per Meter Volume Pricing	Today
			FT300EMT 0.39 NA, Ø300 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$2.97 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Ø400 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding		Coating	Stripping Tool	Proof Test
FT400UMT	300 - 1200 nm		High OH	400 ± 8 µm	425 ± 10 µm	730 ± 30 µm	Pure Silica / TECS Hard Cladding		Tefzel	T21S31	≥100 kpsi
FT400EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT400UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	14 dB/km	13 MHz•km	4.0 MW	0.8 kW	7 µm	43 mm	86 mm	-65 - 135 °C
FT400EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
			FT400UMT 0.39 NA, Ø400 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$4.41 Per Meter Volume Pricing	Today
			FT400EMT 0.39 NA, Ø400 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$4.94 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Ø600 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range	Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding	Coating	Stripping Tool	Proof Test		
FT600UMT	300 - 1200 nm	High OH	600 ± 10 µm	630 ± 10 µm	1040 ± 30 µm	Pure Silica / TECS Hard Cladding	Tefzel	T28S46	≥100 kpsi		
FT600EMT	400 - 2200 nm	Low OH									
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT600UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	12 dB/km	9 MHz*km	9.0 MW	1.8 kW	9 µm	48 mm	96 mm	-65 - 135 °C
FT600EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
			FT600UMT 0.39 NA, Ø600 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$9.22 Per Meter Volume Pricing	Today
			FT600EMT 0.39 NA, Ø600 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$10.30 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Ø800 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding		Coating	Stripping Tool	Proof Test
FT800UMT	300 - 1200 nm		High OH	800 ± 10 µm	830 ± 10 µm	1040 ± 30 µm	Pure Silica / TECS Hard Cladding		Tefzel	M37S46	≥100 kpsi
FT800EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT800UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	12 dB/km	N/A	16.0 MW	3.2 kW	9 µm	55 mm	110 mm	-65 - 135 °C
FT800EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
			FT800UMT 0.39 NA, Ø800 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$16.40 Per Meter Volume Pricing	Today
			FT800EMT 0.39 NA, Ø800 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$19.31 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Ø1000 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding		Coating	Stripping Tool	Proof Test
FT1000UMT	300 - 1200 nm		High OH	1000 ± 15 µm	1035 ± 15 µm	1400 ± 50 µm	Pure Silica / TECS Hard Cladding		Tefzel	M44S63	≥100 kpsi
FT1000EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT1000UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	12 dB/km	N/A	25.1 MW	5.0 kW	10 µm	69 mm	138 mm	-65 - 135 °C
FT1000EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	10 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
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+1		 FT1000UMT	0.39 NA, Ø1000 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$27.96 Per Meter Volume Pricing	Today
+1		 FT1000EMT	0.39 NA, Ø1000 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$32.74 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Ø1500 µm Core TECS-Clad Multimode Optical Fiber, 0.39 NA

Item #	Wavelength Range		Hydroxyl Content	Core Diameter	Cladding Diameter	Coating Diameter	Core / Cladding		Coating	Stripping Tool	Proof Test
FT1500UMT	300 - 1200 nm		High OH	1500 ± 30 µm	1550 ± 31 µm	2000 ± 100 µm	Pure Silica / TECS Hard Cladding		Tefzel	M63S86	≥100 kpsi
FT1500EMT	400 - 2200 nm		Low OH								
Item #	NA	Core Index	Cladding Index	Maximum Attenuation @ 808 nm	Bandwidth @ 820 nm	Max Power Capability		Max Core Offset	Bend Radius		Operating Temperature
						Pulsed	CW		Short Term	Long Term	
FT1500UMT	0.39	436 nm: 1.467 589.3 nm: 1.458 1020 nm: 1.450	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	18 dB/km	N/A	56.6 MW	11.3 kW	12 µm	79 mm	158 mm	-65 - 135 °C
FT1500EMT		436 nm: 1.467 589.3 nm: 1.459 1020 nm: 1.451	436 nm: 1.406 589.3 nm: 1.398 1020 nm: 1.392	18 dB/km							

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal	Price	Available
+1		 FT1500UMT	0.39 NA, Ø1500 µm Core Multimode Optical Fiber, High OH for 300 - 1200 nm, TECS Clad	\$100.10 Per Meter Volume Pricing	Today
+1		 FT1500EMT	0.39 NA, Ø1500 µm Core Multimode Optical Fiber, Low OH for 400 - 2200 nm, TECS Clad	\$130.93 Per Meter Volume Pricing	Today

* Orders for in-stock bare fiber placed by 3:00 PM ET are eligible for same-day shipment.

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Additional Multimode Optical Fiber

[Multimode Fiber:
0.10 NA Step Index](#)
[Multimode Fiber:
0.22 NA Step Index](#)
► [Multimode Fiber:
0.39 NA Step Index](#)

[Multimode Fiber:
0.50 NA Step Index](#)
[Multimode Fiber:
Graded-Index](#)
[Fluoride Fiber](#)

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Technical Support: 1-973-300-3000
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