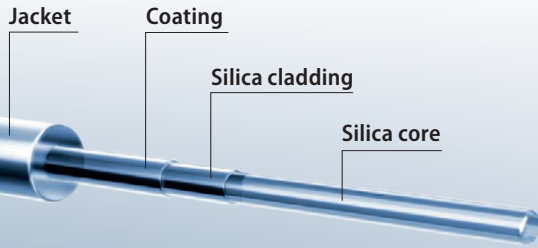


# FiberTech® UV-VIS fiber specifications

Silica/silica

Step-index multimode  
**UV-VIS**



With these step-index fibers, the core and cladding consist of pure fused silica glass with high OH content. The fibers are used in a wavelength range from 190 nm to 1100 nm (UV-VIS). The fibers themselves are covered with a coating either consisting of acrylate, silicone or polyimide.

These multimode fibers are not only used in optical data transmission, but also in sensor technology, spectroscopy, medical technology and laser applications.

**ORMOCER® coating**  
available for continuous use at 200 °C

## Step-index multimode: UV-VIS

Core Ø [µm] (±2 %)	50	50	100	105	115	200	300
Clad Ø [µm] (±2 %)	55	125	110	125	125	220	330

## Fibers with coating

### Coating – single acrylate

Numerical aperture 0.22 (0.1 to 0.28 on request)

Temperature range –40 °C to 85 °C (optionally 150 °C)

Coating Ø [µm] (±3 %)	100	200	200	200	200	345	450
Order no.:	84800002N	84800003N	84800004N	84800005N	84800006N	84800007N	84800009N
Fiber code no.:	N00	N01	N02	N03	N04	F72	N05

### Coating – dual acrylate

Numerical aperture 0.22 (0.1 to 0.28 on request)

Temperature range –40 °C to 85 °C (optionally 150 °C)

Coating Ø [µm] (±3 %)	—	245	230	245	245	400	—
Order no.:	—	84800032N	84800033N	84800034N	84800035N	84800036N	—
Fiber code no.:	—	N13	N14	N15	N16	N17	—

### Coating – polyimide

Numerical aperture 0.22 (0.1 to 0.28 on request)

Temperature range –190 °C to 385 °C (briefly up to 400 °C)

Coating Ø [µm] (±3 %)	60	140	125	140	140	245	355
Order no.:	84800039N	84800191N	84800192N	84800193N	84800040N	84800194N	84800196N
Fiber code no.:	N18	N19	A16	N20	N21	B52	N22

## Fibers with coating and jacket

### Coating – acrylate / jacket – Nylon®

Numerical aperture 0.22 (0.1 to 0.28 on request)

Temperature range –40 °C to 85 °C

Jacket Ø [µm] (±5 %)	—	500	500	500	500	600	700
Order no.:	—	84800102N	84800103N	84800104N	84800105N	84800106N	84800108N
Fiber code no.:	—	N26	N27	N28	N29	N30	N31

### Coating – silicone / jacket – Tefzel®

Numerical aperture 0.22 (0.1 to 0.28 on request)

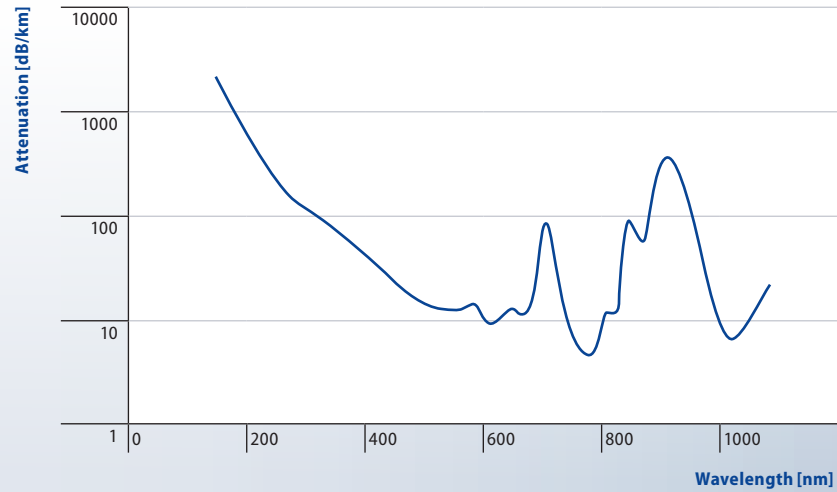
Temperature range –40 °C to 150 °C

Jacket Ø [µm] (±5 %)	—	500	500	500	—	600	700
Order no.:	—	84800161N	84800162N	84800163N	—	84800105N	84800166N
Fiber code no.:	—	N40	N41	N42	—	N43	N44

Short-term bending radius: 100 x clad radius | long-term bending radius: 600 x clad radius

Fibers with jacket are offered in different colours | Tefzel®: black, blue, transparent | Nylon®: black, blue, transparent, yellow, red, white

Note: fiber code applies to black jackets, other colours on request



Typical values

Step-index multimode: UV-VIS

Core Ø [µm] (±2 %)	365	400	500	600	800	910	1000	1500
Clad Ø [µm] (±2 %)	400	440	550	660	880	1000	1100	1650

Fibers with coating

Coating – single acrylate

Numerical aperture 0.22 (0.1 to 0.28 on request)  
Temperature range –40 °C to 85 °C (optionally 150 °C)

Coating Ø [µm] (±3 %)	550	550	770	840	1000	1250	1350	1850
Order no.:	84800011N	84800012N	84800014N	84800015N	84800016N	84800017N	84800018N	84800019N
Fiber code no.:	N06	D19	N07	N08	N09	N10	N11	N12

Coating – polyimide

Numerical aperture 0.22 (0.1 to 0.28 on request)  
Temperature range –190 °C to 385 °C (briefly up to 400 °C)

Coating Ø [µm] (±3 %)	425	465	575	685	—	—	—	—
Order no.:	84800197N	84800198N	84800200N	84800201N	—	—	—	—
Fiber code no.:	N23	N24	N25	E24	—	—	—	—

Fibers with coating and jacket

Coating – acrylate / jacket – Nylon®

Numerical aperture 0.22 (0.1 to 0.28 on request)  
Temperature range –40 °C to 85 °C

Jacket Ø [µm] (±5 %)	800	800	1000	1000	1300	1400	1500	2000
Order no.:	84800110N	84800111N	84800113N	84800114N	84800115N	84800116N	84800117N	84800118N
Fiber code no.:	N32	N33	N34	N35	N36	N37	N38	N39

Coating – silicone / jacket – Tefzel®

Numerical aperture 0.22 (0.1 to 0.28 on request)  
Temperature range –40 °C to 150 °C

Jacket Ø [µm] (±5 %)	800	800	1000	1000	1300	1400	1500	2100
Order no.:	84800167N	84800168N	84800170N	84800171N	84800172N	84800202N	84800173N	84800203N
Fiber code no.:	N45	N46	N47	E31	N48	N49	N50	A59

Short-term bending radius: 100 × clad radius | long-term bending radius: 600 × clad radius

Fibers with jacket are offered in different colours | Tefzel®: black, blue, transparent | Nylon®: black, blue, transparent, yellow, red, white

Note: fiber code applies to black jackets, other colours on request