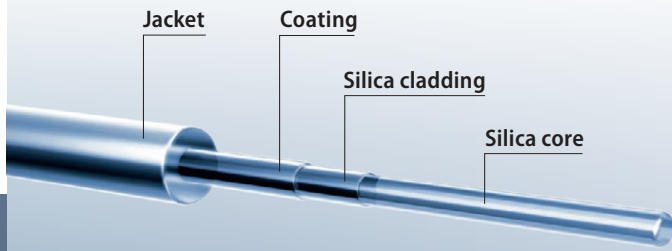


# FiberTech® VIS-IR fiber specifications

Step-index multimode  
**VIS-IR**

Special optical fibers



The core of glass fibers for IR consists of pure fused silica glass with low OH content and uniform refractive index across the entire diameter. The fibers are used in a wavelength range from 400 nm to 2400 nm (VIS-IR). The fibers themselves are covered with a coating either consisting of acrylate, silicone or polyimide.

The 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: VIS-IR

Core Ø [µm] (±2 %)	40	50	60	90	100	100	100	105	200
Clad Ø [µm] (±2 %)	125	125	125	125	110	120	140	125	220

## Fibers with coating

### Coating – single acrylate

Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C

Coating Ø [µm] (±3 %)	200	200	200	200	200	200	220	200	345
Order no.:	84810001N	84810003N	84810004	84810005N	84810006N	84810007N	84810008N	84810009N	848100010N
Fiber code no.:	N51	N52	N53	N54	N55	N56	N57	A73	N58

### Coating – dual acrylate

Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C (optional –60 °C to 150 °C)

Coating Ø [µm] (±3 %)	245	245	245	245	230	240	260	245	400
Order no.:	84810041N	84810043N	84810044N	84810045N	84810046N	84810047	84810048N	84810049N	84810050N
Fiber code no.:	N67	N68	N69	N70	N71	N72	N73	A75	N74

### Coating – polyimide

Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –190 °C to 385 °C

Coating Ø [µm] (±3 %)	140	140	140	140	125	140	165	140	245
Order no.:	84810191N	84810193N	84810194N	84810195N	84810196N	84810197N	84810198N	84810199N	84810200N
Fiber code no.:	N77	N78	N79	N80	N81	N82	N83	N84	B35

## Fibers with coating and jacket

### Coating – acrylate / jacket – Nylon®

Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C

Jacket Ø [µm] (±5 %)	500	500	500	500	500	500	500	500	500
Order no.:	84810101N	84810103N	84810104N	84810105N	84810106N	84810107N	84810108N	84810109N	84810119N
Fiber code no.:	P00	P01	P02	P03	P04	P05	P06	P07	B24

### Coating – silicone / jacket – Tefzel®

Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 150 °C

Jacket Ø [µm] (±5 %)	500	500	500	500	500	500	500	500	500
Order no.:	84810161N	84810162N	84810163N	84810164N	84810165N	84810166N	84810167N	84810168N	84810169N
Fiber code no.:	P13	P14	P15	P16	P17	P18	P19	P20	P21

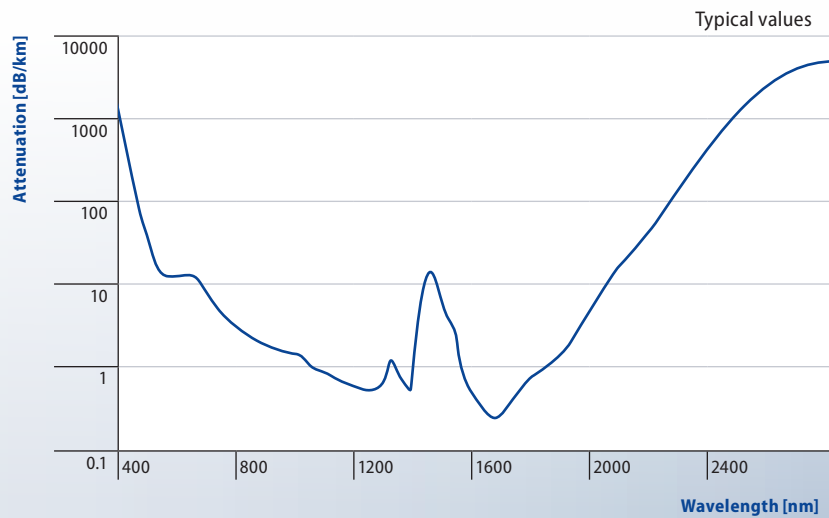
Short-term bending radius: 100 x clad radius | long-term bending radius: 600 x clad radius

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



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



Special optical fibers

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**Step-index multimode: VIS-IR**

Core Ø [µm] (±2 %)	200	200	365	400	400	500	600	800	1000	1500
Clad Ø [µm] (±2 %)	240	280	400	440	480	550	660	880	1100	1650



**Fibers with coating**

**Coating – single acrylate** Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C

Coating Ø [µm](±3 %)	400	450	550	560	660	700	840	1000	1300	1850
Order no.:	84810011N	84810012N	84810014N	84810015N	84810016N	84810017N	84810583N	84810020N	84810022N	84810024N
Fiber code no.:	J62	N59	N60	N61	N62	N63	L74	N64	N65	N66

**Coating – dual acrylate** Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C (optionally –60 °C to 150 °C)

Coating Ø [µm](±3 %)	400	500	—	—	—	—	—	—	—	—
Order no.:	84810051N	84810052N	—	—	—	—	—	—	—	—
Fiber code no.:	N75	N76	—	—	—	—	—	—	—	—

**Coating – polyimide** Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –190 °C to 385 °C

Coating Ø [µm](±3 %)	265	305	425	465	505	575	685	—	—	—
Order no.:	84810201N	84810202N	84810204N	84810205N	84810206N	84810207N	84810208N	—	—	—
Fiber code no.:	N85	N86	N87	N88	N89	N90	E06	—	—	—

**Fibers with coating and jacket**

**Coating – acrylate / jacket – Nylon®** Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 85 °C

Jacket Ø [µm](±5 %)	600	600	800	800	800	1000	1000	1300	1600	2000
Order no.:	84810110N	84810111N	84810113N	84810114N	84810115N	84810116N	84810117N	84810118N	84810525N	84810537N
Fiber code no.:	P08	P09	P10	D05	P11	D60	E00	P12	A49	L03

**Coating – silicone / jacket – Tefzel®** Numerical aperture 0.22 (0.1 to 0.4 on request)  
Temperature range –40 °C to 150 °C

Jacket Ø [µm](±5 %)	600	600	800	800	800	1000	1000	1300	1500	2250
Order no.:	84810170N	84810171N	84810173N	84810174N	84810175N	84810176N	84810177N	84810178N	84810121N	84810179N
Fiber code no.:	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31

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