Fibrespecifications

HELUCOM®

Granded index fibres (multimode)			
Specification		**Fibre type G 50/125**	**Fibre type G 62,5/125**
Fibre catergorie		OM2 Standardfibre	OM1 Standardfibre
Core diameter		50 ± 3 µm	62,5 ± 3 µm
Numerical aperture		0,200 ± 0,015	0,275 ± 0,015
Typ. attenuation	850 nm	2,8 dB/km	3,0 dB/km
	1300 nm	0,7 dB/km	1,0 dB/km
Min. bandwidth	850 nm	500 MHz x km	200 MHz x km
	1300 nm	800 MHz x km	500 MHz x km
Cladding diameter		125 ± 1 µm	
Primary coating diameter		245 ± 10 µm	
Core noncircularity		< 5 %	
Cladding concentricity error		< 3,0 µm	
Cladding noncircularity		< 2,0 %	

Specification		**Fibre type G 50/125**
Fibre catergorie		OM3 Standardfibre
Core diameter		50 ± 3 µm
Numerical aperture		0,200 ± 0,015
Typ. attenuation	850 nm	2,5 dB/km
	1300 nm	0,5 dB/km
Min. bandwidth	850 nm	1500 MHz x km
	1300 nm	500 MHz x km
Cladding diameter		125 ± 1 µm
Primary coating diameter		245 ± 10 µm
Core noncircularity		< 5 %
Cladding concentricity error		< 3,0 µm
Cladding noncircularity		< 2,0 %

Single-Mode-Fibre		
Specification		**Fibre type E9...10/125 (single mode)**
Fibre catergorie		ITU-T G. 652
Attenuation	1300 nm	0,36 dB/km
	1550 nm	0,22 dB/km
Dispersion	1285 - 1330 nm	< 3,5 ps/(nm x km)
	1550 nm	< 19 ps/(nm x km)
Wave length		1312 nm
Mode field diameter at 1310 nm		9,3 ± 0,5 µm
Cladding diameter		125 ± 1 µm
Primary coating diameter		245 ± 10 µm
Cut-off wavelength		< 1250 nm
Cladding concentricity error		≤ 0,8 µm
Cladding noncircularity		< 1,0 %

POF and HCS-Fibre			
Specification		**Fibre type POF P980/1000**	**Fibre type HCS K200/230**
Core diameter		980 µm	200 µm
Numerical aperture		0,5	0,37
Typ. attenuation	650 nm	160 dB/km	10 db/km
	850 nm	-	8 dB/km
Min. Bandwidth	650 nm	10 MHz x 100 m	17 MHz x km
	850 nm	-	20 MHz x km
Wallthickness		1000 µm	230 µm

Fibres with other parameteres on request