

# Universal Cable UC2000 ..

## Fibre Specification

### Graded Index Fibre 50/125 acc. to DIN EN 188 201

**Material**

<b>Fibre material</b>	germanium doped silica
<b>Primary coating</b>	double layer UV hardened acrylate
<b>Process</b>	PCVD

**Dimensions**

Core diameter	µm	50
Tolerance	µm	± 3
Core non-circularity	%	≤ 3
Core/cladding concentricity error	µm	≤ 1.5
Cladding diameter	µm	125
Tolerance	µm	± 2
Cladding non-circularity	%	≤ 2
Diameter over coating	µm	245
Tolerance	µm	± 10

**Transmission Properties and optical characteristics**

Fibre class	Fibre type	Attenuation dB/km	Bandwidth MHz*km	NA	Wavelength nm	Standard
A	50/125	≤ 2.5 ≤ 0.8	≥ 600 ≥ 1200	NA 0.20	850 1300	ITU-T Rec.G 651
B	50/125	≤ 2.7 ≤ 1.0	≥ 400 ≥ 1000	NA 0.20	850 1300	ITU-T Rec.G 651

Index of refraction	@850 nm	1,482
	@1310 nm	1,477

**Mechanical properties**

Proofstress level	GN/m <sup>2</sup>	0.7
Proofstrain for 1 second (equivalent)	%	1.0
minimum bending radius	mm	30
Loss increase of 100 turns of fibre loosely-wound with 30 mm radius, measured at 850 nm and 1300 nm	dB	< 0.5

**Standard**

The fibres are acc. to DIN EN 188 200, DIN EN 188 201 and ITU-T G. 651.