

Universal Cable UC2000 .. Fibre Specification Graded Index Fibre 50/125 acc. to DIN EN 188 201

Material

Fibre material	germanium doped silica
Primary coating	double layer UV hardened acrylate
Process	PCVD

Dimensions

Core diameter	µm	50
Tolerance	µm	± 2.5
Core non-circularity	%	≤ 3
Core/cladding concentricity error	µm	≤ 1.5
Cladding diameter	µm	125
Tolerance	µm	± 2
Cladding non-circularity	%	≤ 1
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 ≤ 0.8	≥ 500 ≥ 800	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 ²	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, ITU-T G. 651, IEC 60793-2-10 A1a, EN 50173 OM2 and ISO/IEC 11801 OM2