

Universal Cable UC2000 .. Fibre Specification Graded Index Fibre 62,5/125 acc. to DIN EN188 202

Material

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

Dimensions

Core diameter	µm	62,5
Tolerance	µm	± 2.5
Core non-circularity	%	≤ 6
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	62.5/125	≤ 3.2 ≤ 1.0	≥ 200 ≥ 600	NA 0.275	850 1300	IEC 60793-2 A1b
B	62.5/125	≤ 3.2 ≤ 1.0	≥ 200 ≥ 400	NA 0.275	850 1300	IEC 60793-2 A1b

Index of refraction (IOR)	@850 nm	1.496
	@1310 nm	1.491

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	< 0.2

Standard

The fibres are acc. to DIN EN 188 200, DIN EN 188 202 and IEC 60793-2 A1b. In addition the fibres in class A adheres to the requirements of ISO/EN 11801 and EN 50173 class OM1