

# Universal Cable UC2000 ..

## Fibre Specification

### HiCap™ 50/125 µm OM2+ Multimode Graded Index Fibre

**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 ± 2.5
Core Non-Circularity	%	≤ 6.0
Core / Cladding Concentricity Error	µm	≤ 1.5
Cladding Diameter	µm	125.0 ± 2.0
Cladding Non-Circularity	%	≤ 1.0
Coating Diameter	µm	245 ± 10
Coating Non-Circularity	%	≤ 6.0
Coating Concentricity Error	µm	≤ 12.5

**Transmission Properties and optical characteristics**

	<b>850 nm</b>	<b>1300 nm</b>
Attenuation Coefficient	≤ 2.5 dB/km	≤ 0.7 dB/km
Modal Bandwidth acc. to IEC60793-1-41	> 600 MHz·km	> 1200 MHz·km
Numerical Aperture	0.200 ± 0.015	
Irregularities over fiber length	≤ 0.1 dB	
Group Index of Refraction	1.482	1.477

**Gigabit Ethernet Maximum Link Distance (1000Base-..)**

	<b>SX (850 nm)</b>	<b>LX (1300 nm)</b>
HiCap™ 50 µm Standard opt.	750 m	2000 m

**10 Gigabit Ethernet Maximum Link - Distance (10GBase-..)**

	<b>SR (850 nm)</b>	<b>LX4 (1300 nm)</b>
HiCap™ 50 µm Standard opt.	110 m	300 m

**Mechanical properties**

Proofstress level	GN/m²	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.