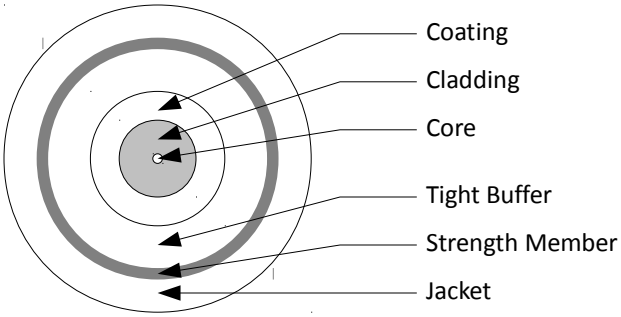
Product Specifications

Single-mode 9/125 Optical Fiber 3mm

Construction Detail



Description

For optical fiber transmission

Rated Temperature (°C)	-20 to +60
Product Standards	G.652.D
Flame Test	OFNR
Product Compliance	RoHS

Physical Construction

Inner Optical Fiber	Corning Glass
Core Dia. (µm)	9
Cladding Dia. (±0.7µm)	125
Coating Dia. (±5µm)	242
Core-Cladding concentricity (µm)	≤0.5
Cladding non-circularity (%)	≤0.7
Coating-Cladding concentricity (µm)	≤12
Outer Optical Cable	
Tight Buffer	PVC
Outer Dia. (mm)	0.9
Strength Member	Aramid (Kevlar)
Jacket	PVC
Outer Dia. (mm)	2.85

Colours

Jacket	Yellow
Sheath	White

Performance Characteristics

Typical Optical	
Insertion Loss (dB)	≤0.3
Return Loss (dB)	≥45
Mode Field Diameter (±0.4µm@1310nm)	9.2
Mode Field Diameter (±0.5µm@1550nm)	10.4
Attenuation (dB/km@1310nm)	≤0.35
Attenuation (dB/km@1550nm)	≤0.2
Mechanical	
Tensile Strength, Long-Term (N)	80
Tensile Strength, Short-Term (N)	100
Crush Resistance, Long-Term (N/100mm)	100
Crush Resistance, Short-Term (N/100mm)	500
Bend Radius, Dynamic (mm)	20xD
Bend Radius, Static (mm) (D: Cable Diameter)	10xD

Jacket Marking (black)

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CORNING OPTICAL FIBER [MM]/[YYYY] SM 9/125um OF
(UL)E247906 XXXXX M

Where:
[MM] – Month
[YYYY] – Year
XXXXX – Length in spool
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