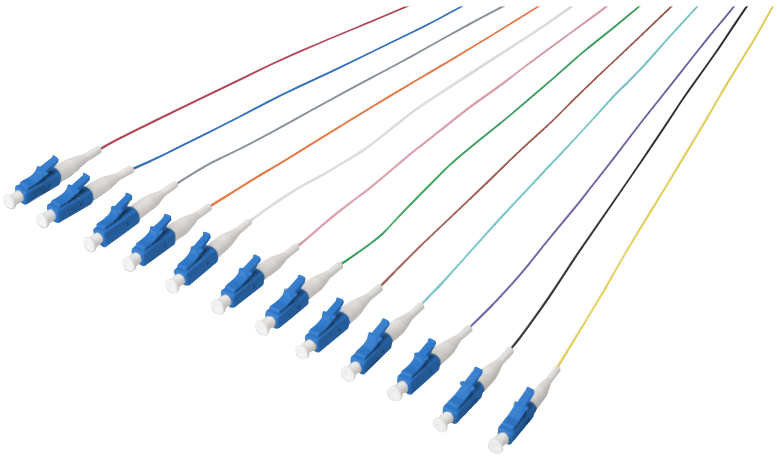
DIGITUS® Fiber Optic Pigtail – Singlemode 9/125 OS2



- ✓ 15 Year Product Warranty
- ✓ 25 Year System Warranty
- ✓ Best performance and link quality for your network
- ✓ LC Simplex Connector
- ✓ 9/125 OS2 Singlemode
- ✓ 12 different jacket colors

Abstract

DIGITUS® Fiber Optic Pigtail, Singlemode, 9/125 OS2

Features

- 25 Year System Warranty
- Best performance and link quality for your network
- LC Simplex Connector
- 9/125 OS2 Singlemode
- 12 different jacket colors
- Jacket material: LSOH
- Connectors compliant to IEC-61754
- Operating temperature: -20°C up to +70°C
- Connectors according to UL 94V-0

Product Overview

DIGITUS® offers a wide range of high quality products of constantly available fiber optic patch cables. Practically every request and every requirement is covered by the broad range of connector types and fiber qualities.
Every cable is individually tested after the assembly and is delivered with the test report. We would like to discuss your individual cable requests with you in order to realize them within the shortest time.

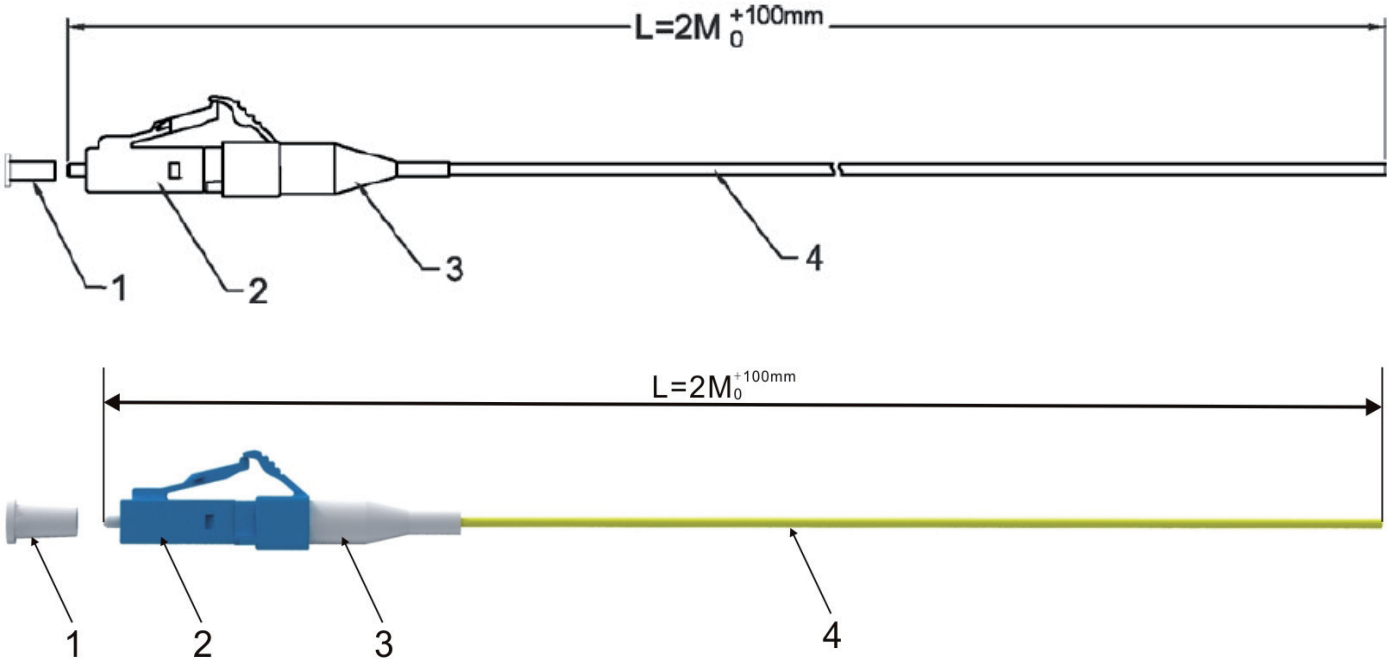
For the professional installation of optical fiber pigtails DIGITUS® offers a wide range of different types. The DIGITUS® product range supplies all cable types, whether with 4, 8 12, or 24 fibers or in different qualities as OM1, OM2, OM3, OS1 and OS2. The halogen-free pigtails comply with the fire protection regulations for buildings.

Part Number Information

DK-29332–02 - DIGITUS® Fiber Optic Pigtail, Singlemode, 9/125 OS2
12 different jacket colours: Red, green, blue, yellow, white, grey, brown,violet, turquoise, black, orange, pink.

DIGITUS® Fiber Optic Pigtail – Singlemode 9/125 OS2

Technical Drawing



Product construction

1. LC dust cap
2. LC simplex 0.9mm connector, blue
3. LC boot 0.9mm, white
4. Ø 0.9mm SM 9/125u OS2 cable, 12 different jacket colours:
   Red, green, blue, yellow, white, grey, brown,violet, turquoise, black, orange, pink.

Optic Specification for connector

Parameters	Specification
Insertion Loss	< 0.3dB
Return Loss	> 50 dB

Notes: Test standard according to GR-326-CORE

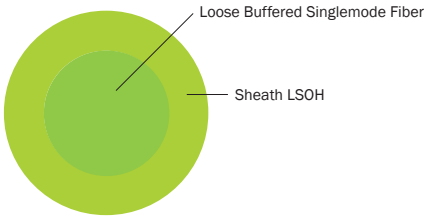
DIGITUS® Fiber Optic Pigtail – Singlemode 9/125 OS2

Fiber optic cable performance

Parameters	Specification
Number of fiber	1
Outer diameter	900um(±100um)
Jacket material	LSOH
Nominal weight	1kg/km
Tensile force(installation)	≤4.5N
Bending radius(installation&opertaion)	≥30mm

OS2 2M LC PIGTAIL MALE 9/125

Attenuation(typ)	≤0.38dB/km@1310nm;
	≤0.38dB/km@1550nm;
	≤0.38dB/km@1610nm;



Connector Specification

Connectors must be compliant to IEC-61754
Color for LC/UPC connector body and boot:

	body (Blue)	2.8mm cable
LC Connector		

According to UL 94V-0

DIGITUS® Fiber Optic Pigtail – Singlemode 9/125 OS2

Physical Characteristics of Connector (Plug+Adaptor)

Test Procedure: IEC 61300

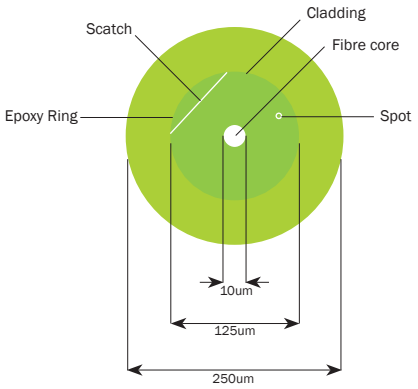
	Test Performance	Acceptance Criteria ΔIL is the variation of attenuation referenced to initial value
Optical Connector	–	–
Engagement and separation force	Eng.<25N; sep. <25N	–
Streng of coupling mechanism	Magnitude: 30 N on the crimping sleeve during 60s	ΔIL <0.2dB, RL conform to spec
Mechanical endurance	Cycles: 50	ΔIL <0.2dB by 96%, RL conform to spec
Cable pulling	900um Tube: Max load 5N	ΔIL <0.2dB, RL conform to spec
Cable and Optical pathcord		
Static bending Loss	10 turns are formed on a 60mm diameter spindle	ΔIL <0.2dB

Ferrule end face requirements

Inspect the ferrule end face enlarged by 400X microscope, the cleanliness requirement for each zone is given as below

Defect category	Zone A(0~9um)	Zone B(9~125um)	Zone C(125~250um)
Scratch	None	≤1um one pcs would be acceptable(length≤125um)	≤2um two pcs would be acceptable(length≤125um)
Spot	None	≤1um two pcs would be acceptable(<1/4 of fiber core)	≤2um two pcs would be acceptable(<1/4 of fiber core)
Epoxy Ring	-	width ≤2um, Length < 30% of 125um would be acceptable	

Notes: End face Inspection rate: 100%



3D Parameters requirement

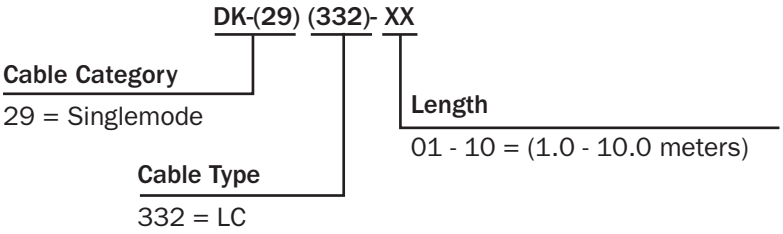
Parameters		Unit	Specification
Ferrule end face geometry	Fiber height	nm	-100~+100
	Radius	mm	7~25
	Apex offset	um	≤50

Notes: 3D pass rate: 80%

DIGITUS® Fiber Optic Pigtail – Singlemode 9/125 OS2

Cable configurations

Colored LC Simplex Pigtails



System Warranty

The DIGITUS® System Warranty provides 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The System Warranty will be applied by a certified DIGITUS® Partner who has installed the said system.



DIGITUS® is a registered Brand Name of ASSMANN Electronic GmbH