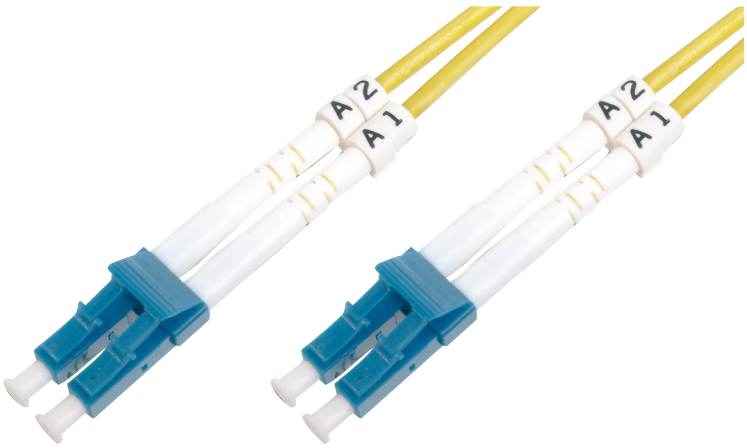
DIGITUS® Fiber Optic Singlemode Patch Cord



- ✓ 15 Year Product Warranty
- ✓ 25 Year System Warranty
- ✓ Best performance and link quality for your network
- ✓ LSOH Jacket
- ✓ Fiber Class: OS2

Abstract

DIGITUS® Fiber Optic Singlemode Patch Cord, LC / LC, Duplex

Features

- 25 Year System Warranty
- Best performance and link quality for your network
- LSOH jacket
- LC connectors
- Connectors with ceramic ferrule
- Duplex cable
- Cable diameter 3mm
- Cable type: I-VH 2E9/125µ
- Fiber class: OS2
- Singlemode
- Color cable: yellow
- Boot: single-color
- Fiber diameter: 9/125µ
- Single packed with test-report

Product Overview

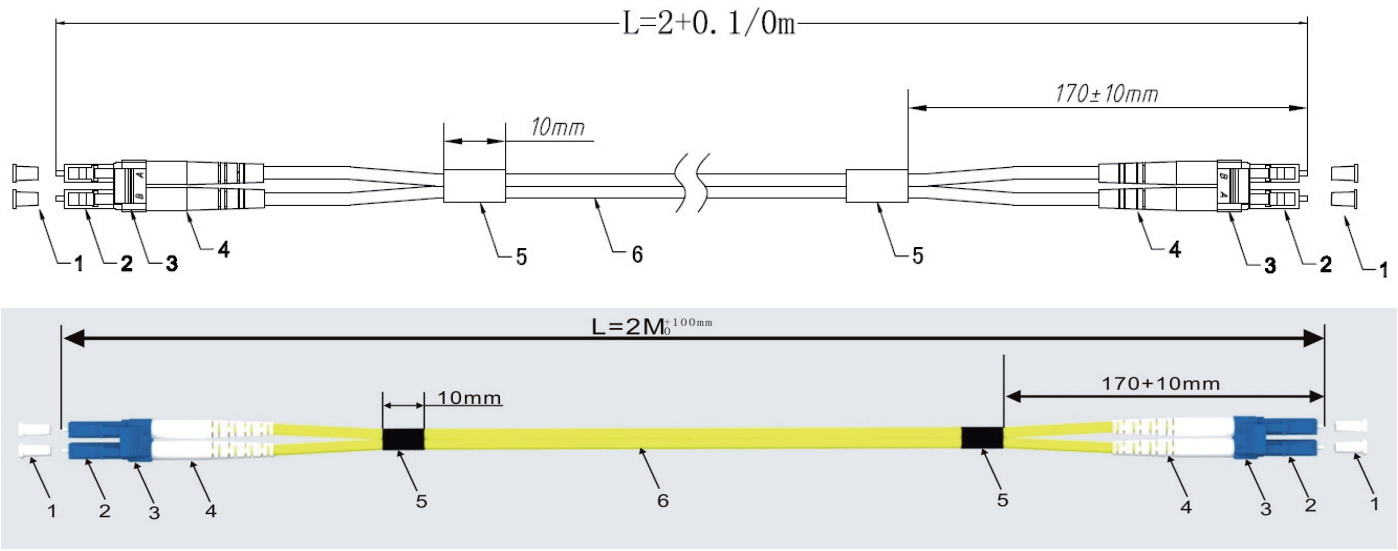
DIGITUS® offers a wide range of high quality products of constantly available fiber optic patch cables. Practically every request and every requirement is covered by the broad range of connector types and fiber qualities. Every cable is individually tested after the assembly and is delivered with the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

DIGITUS® Fiber Optic Singlemode Patch Cord

Part Number Information

DK-2933-01 - Fiber Optic Singlemode Patch Cord, LC / LC, OS2, 1m
DK-2933-02 - Fiber Optic Singlemode Patch Cord, LC / LC, OS2, 2m
DK-2933-03 - Fiber Optic Singlemode Patch Cord, LC / LC, OS2, 3m
DK-2933-05 - Fiber Optic Singlemode Patch Cord, LC / LC, OS2, 5m
DK-2933-10 - Fiber Optic Singlemode Patch Cord, LC / LC, OS2, 10m

Performance Overview



Product construction

1. LC dust cap
2. LC 3.0 SM Connector, Blue
3. LC Duplex Clip, Blue
4. LC 2.8mm Boot, White
5. Heated-shrinkable tube, black
6. Ø 3.0mm SM Duplex OS2 9/125um LSZH Yellow Cable

Optic Specification for connector

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

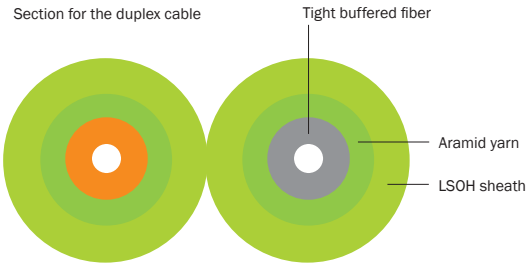
Notes: Test standard according to GR-326-CORE

DIGITUS® is a registered Brand Name of ASSMANN Electronic GmbH

DIGITUS® Fiber Optic Singlemode Patch Cord

Fiber optic cable performance

Parameter	Specification
Fiber Count	2
Outer diameter	2.8 x 5.7mm
Nominal weight	13.2kg/km
Max.tension	300N (short-term); 160N (long-term)
Min.Bending Radius	20H (Install); 10H (Static)
Max.Crush Resistance	1000 (N/100mm)



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 94-0

Physical Characteristics of Connector (Plug+Adaptor)

Test Procedure: IEC 61300

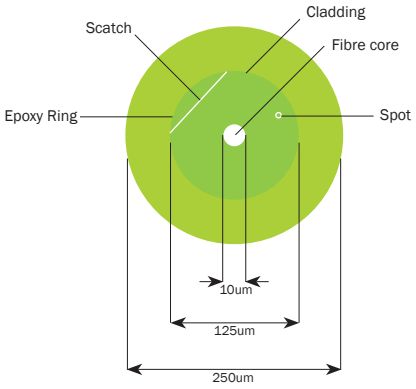
	Test Performance	**Acceptance Criteria** ΔIL is the variation of attenuation referenced to initial value
Optical Connector	–	–
Engagement and separation force	Eng.<25N; sep. <25N	–
Streng of coupling mechanism	Magnitude: 30 N on the crimping sleeve during 60s	ΔIL <0.2dB, RL conform to spec
Mechanical endurance	Cycles: 50	ΔIL <0.2dB by 96%, RL conform to spec
Cable pulling	2.8mm Tube: Max load 50N	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

DIGITUS® Fiber Optic Singlemode Patch Cord

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)



Notes: End face Inspection rate: 100%

Parameters Specification

Operating Temerature	-20°C ~ +75°C
Starage Temerature	-40°C ~ +85°C

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%

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