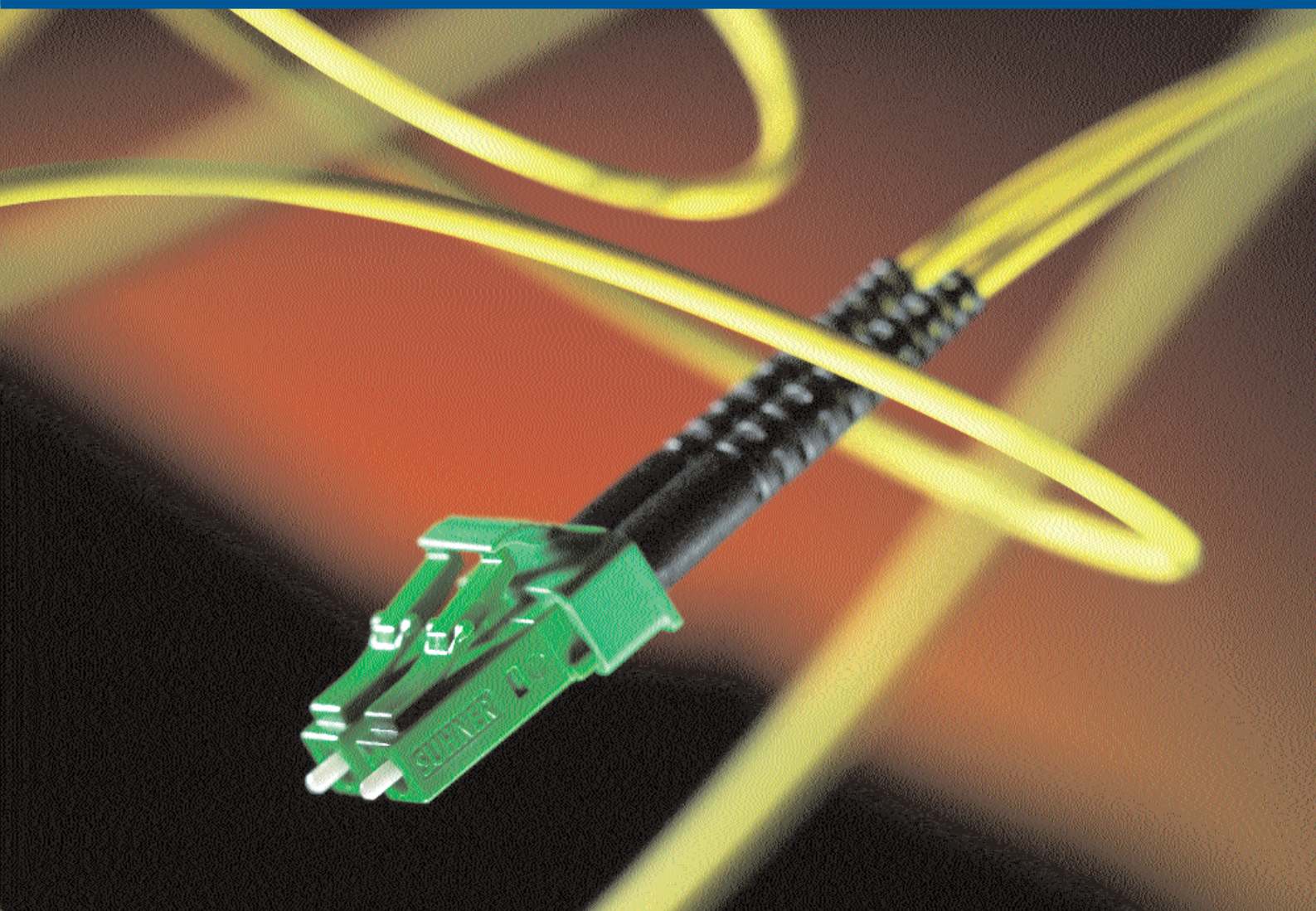




# SUHNER® FIBEROPTIC LC CONNECTOR FAMILY



# SUHNER LC: the reliable SFF connector

## High performance at high packing density

Today's patch fields with high packing densities do not only require a compact design of the single components, but also a stable optical transmission performance. The LC connector is based on the 1.25 mm ferrule technology and has set worldwide a new standard. The inhouse manufacturing of the LC guarantees high quality and high transmission performance thanks to self-designed and patented improvements.

## Features/Benefits

- SUHNER FIBEROPTIC tuning for highest optical performance
- Removable color coding of connectors
- 0.9 mm tubes as well as cables up to 2.4 mm can be terminated
- Singlemode PC, UPC and APC and Multimode
- Snap-in locking element for easy and secure handling
- Duplex adapter fits RJ-45 cutout
- Telcordia GR-326-CORE, issue 3 compliance
- Suitable for HighPower applications

## Applications

- Local Area Networks (LAN) and inhouse cabling systems
- telecommunications networks
- transmission technology
- patching in distribution equipment
- Fiber-to-the-home
- Sensor systems
- Measuring technique
- Railways

## Complete LC Product Family from SUHNER FIBEROPTIC



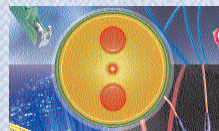
LC-MU hybrid adapter



LC-LX.5 hybrid adapter



LC attenuator



LC PM connector (under development)



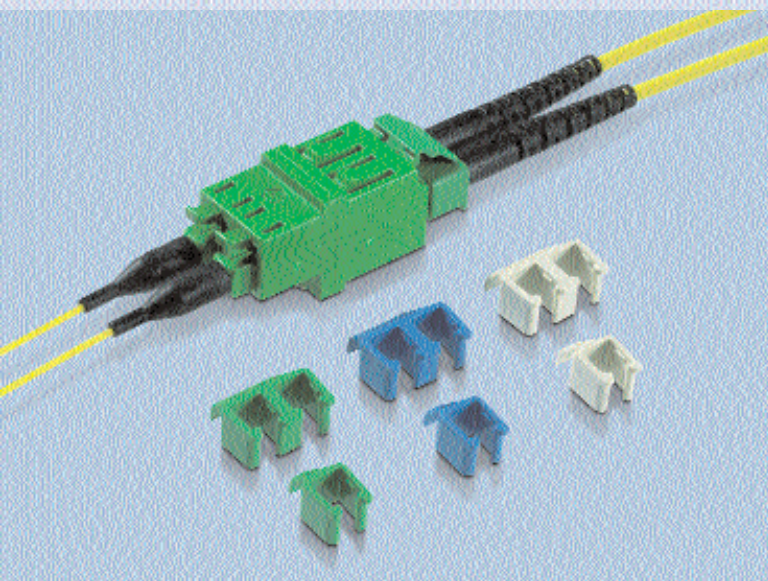
LC terminator



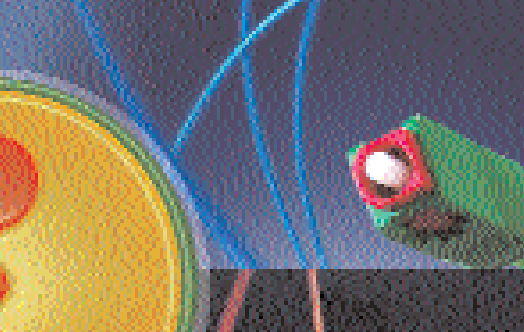
LC simplex adapter



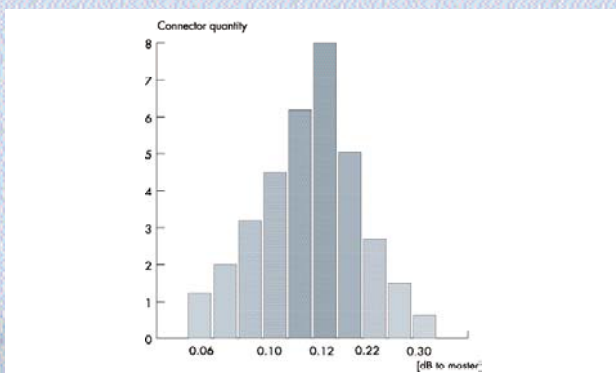
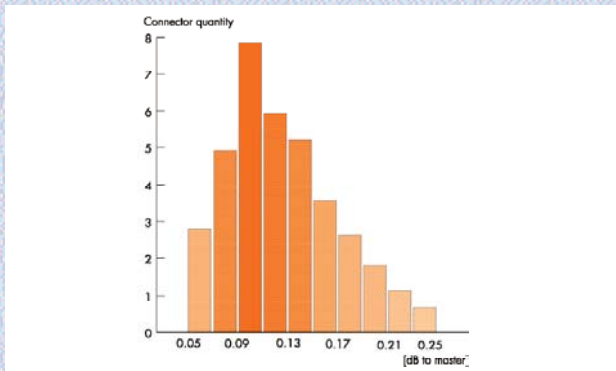
LC duplex SC footprint



The simplex coding clips are available in 12 different colors.



# Connector for high packing densities

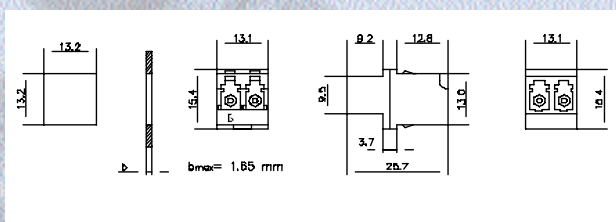
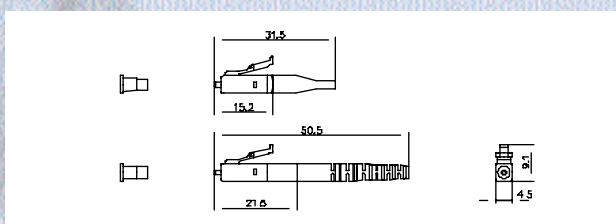


## Premium Class

	each-to-each	to master
Insertion loss	max. 0.3 dB	0.25 dB
	typ. 0.09 dB	
Return loss	PC	> 45 dB
	APC	> 85 dB
Ferrule end face geometry according to Telcordia GR-326-Core, issue 3		
Tuning	all connectors are adjusted	

## High-End Class

	each-to-each	to master
Insertion loss	max. 0.4 dB	0.35 dB
	typ. 0.12 dB	
Return loss	PC	> 45 dB
	UPC	> 50 dB
	APC	> 85 dB
Ferrule end face geometry according to Telcordia GR-326-Core, issue 3		
Tuning	all connectors are adjusted	



## Technical Data LC

Operating temperature	-40° C to +85° C, conditioned by cable type
Durability	min. 500 cycles
Connector material	UL 94-V0, full ceramic zirconia
Adapter material	UL 94-V0, slotted ceramic sleeve
Standards	IEC 61754-20 prEN 50377-7 TIA 604-10

# Ordering Information LC Assemblies

A- 1 - 9 - 85 / 85 - 2 - 2.5 A

## Optical Performance

C - Premium class (max. 0.3 dB) F - UPC Premium (max. 0.3 dB/>50 dB)

D - UPC High End (max. 0.4/>50 dB)

## Cable length, in meters

## Number of connectors

1 - Pigtail 2 - Patchcord

## Connector code 1st side/2nd side

Code	Connector	Code	Connector	Code	Connector
00	no connector	70	FSC PC	86	FLC APC Simplex
30	FCPC	73	FSC APC 8°	88	FLC Duplex
33	FCPC APC 8° WK	74	FSC APC 9°	89	FLC APC Duplex
34	FCPC APC 8° SK	77	FSC Duplex	90	FLSH PC
40	FLSA PC (DIN)	80	FLX.5	93	FLSH APC 8°
43	FLSA APC 8°	83	FLX.5 APC 8°		
45	FMU PC	85	FLC PC		

others see general catalogue

## Fiber type

9 - SM E9/125 50 - MM G50/125 62 - MM G62.5/125

## Numbers of fibers

1 - Simplex 2 - Duplex

## Cord or buffer diameter and colour

A - 0.9 mm, pigtail CH-/CW (E9 yellow/G50 orange/G62.5 blue)

LH - 1.7 mm, Simplex/Duplex (fig. 8) (E9 yellow/G50 orange/G62.5 grey)

KH - 2.1 mm, Simplex (E9 yellow)

B - 2.4 mm, Simplex (E9 yellow)

## Ordering information connector (without clip)

FLC-Z/K-A005	LC SM, <sup>1)</sup> blue	FLC-Z/K-H001	LC SM Premium, <sup>1)</sup> blue
FLC-Z/K-A006	LC SM, <sup>2)</sup> blue	FLC-Z/K-H002	LC SM Premium, <sup>2)</sup> blue
FLC-Z/K-A600	LC SM APC, <sup>1)</sup> green	FLC-Z/K-H600	LC SM Premium APC, <sup>1)</sup> green
FLC-Z/K-A601	LC SM APC, <sup>2)</sup> green	FLC-Z/K-H601	LC SM Premium APC, <sup>2)</sup> green
FLC-Z/K-B004	LC MM, <sup>1)</sup> beige		
FLC-Z/K-B005	LC MM, <sup>2)</sup> beige		

<sup>1)</sup> <1 mm tube <sup>2)</sup> ruggedised cable

## Complementary products

FLC-FLC-A100-02	LC Duplex, Singlemode, blue	LC terminator	on request
FLC-FLC-A600-02	LC APC Duplex, Singlemode, green	LC simplex adapter	on request
FLC-FLC-A200-02	LC Duplex, Multimode, beige	LC duplex SC footprint	on request

## Crimpsets

009-BK-H001	black	021-BK-H001	black
017-BK-H001	black	024-BK-H001	black

## Duplex clip

FLC-DUP-BG1	Duplex clip beige	FLC-CLP-BG1	Simplex clip beige
FLC-DUP-BL1	Duplex clip blue	FLC-CLP-BL1	Simplex clip blue
FLC-DUP-GN1	Duplex clip green	FLC-CLP-GN1	Simplex clip green

## Simplex clip (on request 12 colors)

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001.

### WAIVER

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