



# SUHNER® FIBEROPTIC LX.5 CONNECTOR



# Half the size – double capacity

## Half the size

The enormous growth in fiber optics is the cause for critical space problems which can only be solved by re-dimensioning the components. The revolutionary LX.5 solves these problems by doubling the quantity of terminated fibers in one adapter. In other words – the space required by one SC connector is filled out by two LX.5 connectors. By doubling the fiber density, future growth can already be compensated today. The flexibility allows also an efficient handling of audio, video and data transfer rates over singlemode and multimode types.

## Double capacity

The outstanding dimensions of the LX.5 mean space savings and a fiber capacity doubling of planned and of already existing installations. Due to the identical size as an SC adapter, a seamless transition from an old to a new LX.5 system is easily realized. Hybrid adapter from LC to LX.5 are also under development.

## Safety

To prevent eye accidents by emerging laser light and as ferrule end-face protection, LX.5 connectors and adapters are outfitted with safety shutters. These spring-activated caps open when the connector is pushed into the adapter and closes during the pulling movement, thus covering the ferrule.

## Snap-on connection

The integrated latching mechanism prevents an unintentional interruption of the connection and serves as quick-lock to the adapter.



Comparison LX.5 / FSC-CMAX

LX.5

## Future-oriented solutions for

- revenue maximization
- cost control
- flexibility in continuously changing market situations

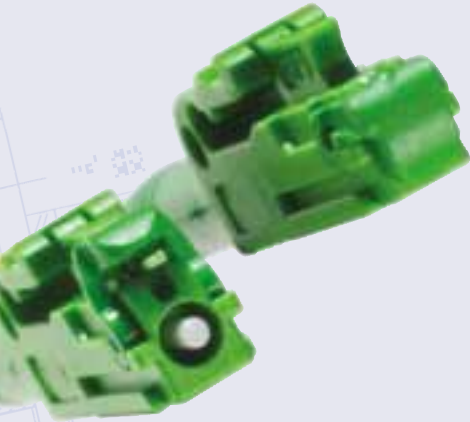
## Cable management

The LX.5 is easily integrated into SUHNER FIBEROPTIC distribution systems. By combining the FIBERPORT and a full amount of compact modules, a density of 288 fibers can be realized.

The 1.7mm diameter of the connector cable allows a relieved cable management and more flexibility.



Patch field with highest packing density thanks to the combination of FIBERPORT and LX.5



## Technical data LX.5

### Specifications

	Singlemode		Singlemode APC 8°		Multimode
	Typ.	Max.	Typ.	Max.	
Insertion loss IL [dB]	0.12	< 0.4 <sup>1</sup>	0.12	< 0.4 <sup>1</sup>	0.4 <sup>2</sup>
Conditioned by type of connector	0.09	< 0.3 <sup>1</sup>	0.09	< 0.3 <sup>1</sup>	
Return loss [dB]	PC	> 49	> 45	> 85	
	UPC	> 52	> 50		

<sup>1</sup> each-to-each

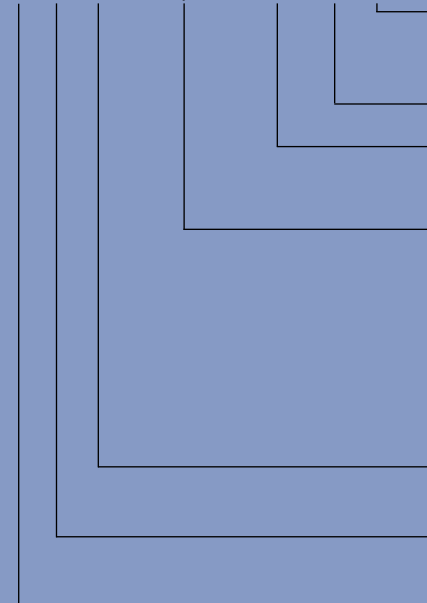
<sup>2</sup> IEC 874-1 method 6

IEC 61300-3-34 methode 2

Strain relief	60N
Operating temperature	-40 °C to +85 °C, conditioned by type of cable
Durability	min. 500 cycles
Assembly procedure	glue and polish
Connection	physical contact
Lock mechanism	snap-on
Standards	Bellcore GR 326
Ferrule material	full ceramic zirconia
Connector/adapter material	UL 94-V0

# Ordering Information LX.5 Assemblies

A- 1 - 9 - 80 / 80 - 2 - 2.5 B



## Optical Performance

B - High End class (0.4dB)      D - UPC High End (0.4/50dB)  
 C - Premium class (0.3dB)

## 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	45	FMU UPC	80	FLX.5
30	FCPC	70	FSC PC	83	FLX.5 APC 8°
33	FCPC APC 8° WK	73	FSC APC 8°	86	FLC
34	FCPC APC 8° SK	74	FSC APC 9°	89	FLC Duplex
40	FLSA PC (DIN)	77	FSC Duplex	90	FLSH PC
43	FLSA APC 8°			93	FLSH APC 8°

## Fiber type

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

## Numbers of fibers

1 - Simplex      2 - Duplex (order additional Duplex clips)

## Cord or buffer diameter and colour

A - 0.9mm, pigtail CH/semi-tight (E9 yellow/G50 orange/G62.5 blue)  
 LH - 1.7mm, Simplex/Duplex (fig. 8) (E9 yellow/G50 orange/G62.5 grey)  
 Z - Customer-specific cable

## Ordering Information Connector

FLX5-Z/K-H001	LX.5 connector, blue, SM PC, IL max. 0.3dB (Premium)
FLX5-Z/K-A001	LX.5 connector, blue, SM PC, IL max. 0.4dB
FLX5-Z/K-H600	LX.5 connector, green, SM APC 8°, IL max. 0.3dB (Premium)
FLX5-Z/K-A600	LX.5 connector, green, SM APC 8°, IL max. 0.4dB
FLX5-Z/K-B001	LX.5 connector, beige, MM PC, IL max. 0.4dB

## Ordering Information Adapter

FLX5-FLX5-A100-02	SM adapter, duplex, flange with spring clip, zirconia-ceramic sleeve, blue
FLX5-FLX5-D100-02	SM adapter, duplex, with 2-hole flange, zirconia-ceramic sleeve, blue
FLX5-FLX5-A600-02	SM adapter, duplex, flange with spring clip, zirconia-ceramic sleeve, green
FLX5-FLX5-D600-02	SM adapter, duplex, with 2-hole flange, zirconia-ceramic sleeve, green
FLX5-FLX5-A200-02	MM adapter, duplex, flange with spring clip, zirconia-ceramic sleeve, beige
FLX5-FLX5-D200-02	MM adapter, duplex, with 2-hole flange, zirconia-ceramic sleeve, beige

## Ordering Information Duplex Clips

FLX5-DUP-BL1	Duplex clip, blue
FLX5-DUP-GN1	Duplex clip, green
FLX5-DUP-BG1	Duplex clip, beige

## Crimpset 0.9mm

## Crimpset 1.7mm

009-BL-G001	blue boot	017-BL-G001	blue boot
009-GN-G001	green boot	017-GN-G001	green boot
009-BG-G001	beige boot	017-BG-G001	beige boot

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

### Waiver

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