

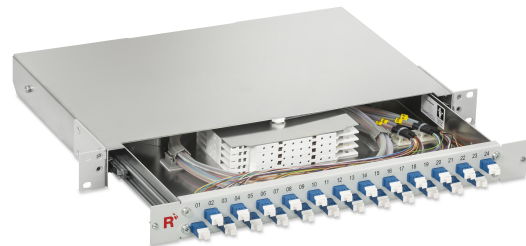
## PRODUCTPROFILE

**Catalogue number: 230A4001**

Partnumber: 773509

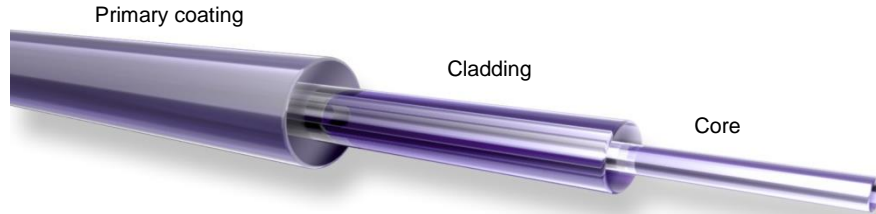
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19"-Spleißgehäuse ECO  
1 HE, RAL 7035, mit Teleskopvollauszug  
Aluminium Korpus  
Stecksystem: LC/LC, 9µ  
Anzahl Fasern: 48  
4xSPK,1xPG16



### **Related documents:**

19Z-GEHÄUSEZUBEHÖR_OE	Produktinformation
DS_FASER G657A1_OE	Fiber Data Sheet
DS_LC_SIMPLEXDUPLEX_STECKER_OI	Steckerdatenblatt
DS_LCD_KUPPLUNG_K02_OE	LCD Kupplung



**Standards**

Stepped index fiber 9/125µm according to  
 -ISO/IEC 11801 und EN 50173-1 OS2  
 -IEC 60793-2-50 type B1.3  
 -ITU G.657.A1 und G.652.D

**Structure**

Silica fiber with two layer acrylate primary coating

**Geometrical properties**

Modefield diameter @1310 nm	9.2 µm +/- 0.4 µm
Modefield diameter @1550 nm	10.4 µm +/- 0.5 µm
Cladding diameter	125 µm +/- 0.07 µm
Cladding non-circularity	≤ 0.7 %
Core-Cladding concentricity	≤ 0.5 µm
Primary coating diameter	242 µm +/- 5 µm
Coating-Cladding concentricity	< 12 µm

**Mechanical properties**

Break strength SCREEN-Test 1 % strain for 1 s @100 kpsi

**Thermal properties**

Operating temperature range -60 to +85°C

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**Transmission characteristics**

**Attenuation:**

**Cabled fiber tight buffered:** @ 1310 nm max. 0.38 dB/km  
 @ 1550 nm max. 0.28 dB/km

**Cabled fiber loose tube:** @ 1310 nm max. 0.36 dB/km  
 @ 1550 nm max. 0.22 dB/km

**Uncabled fiber:** @ 1310 nm max. 0.32 dB/km  
 @ 1383 nm max. 0.32 dB/km  
 @ 1490 nm max. 0.21 dB/km  
 @ 1550 nm max. 0.18 dB/km  
 @ 1625 nm max. 0.20 dB/km

**Macrobending, induced attenuation, uncabled fiber:**

Radius 10 mm, 1 turn, @ 1550 nm ≤ 0.50 dB  
 Radius 10 mm, 1 turn, @ 1625 nm ≤ 1.50 dB  
 Radius 15 mm, 10 turns, @ 1550 nm . 0.05 dB  
 Radius 15 mm, 10 turns, @ 1625 nm ≤ 0.30 dB  
 Radius 25 mm, 100 turns, @ 1310, 1550 und 1625 nm ≤ 0.01 dB

**Dispersion:**

@ 1285 - 1330 nm ≤ 3.0 ps/(nm\*km)  
 @ 1550 nm ≤ 18.0 ps/(nm\*km)  
 @ 1625 nm ≤ 22.0 ps/(nm\*km)

**Polarization Mode Dispersion (PMD):**

PMD Link Design Value ≤ 0.04 ps/√km  
 Maximum individual fiber PMD ≤ 0.1 ps/√km

**Cut-off-Wavelength:** ≤ 1260 nm

**Effective group index of refraction:**

@ 1310 nm 1.4676  
 @ 1550 nm 1.4682

**Backscatter attenuation @ 1ns pulse width:**

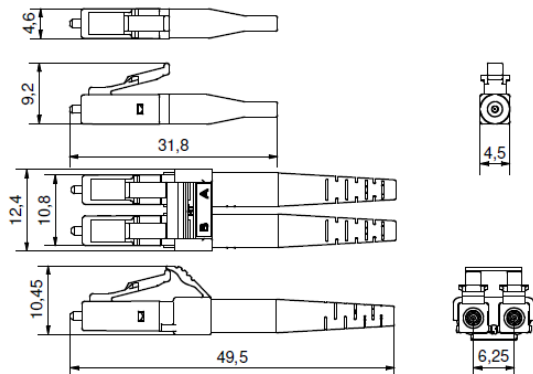
@ 1310 nm -77 dB  
 @ 1550 nm -82 dB  
 @ 1625 nm -83 dB

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	12-04-15	P. Maier	12-04-15	001	without	H. Jungbäck	12-04-15

LC-Simplex/Duplex connector



Properties and applications

- LC-Simplex/Duplex connectors for fiber optic cabling in broadband networks (telecom, MAN, WAN, CATV, GPON, FTTA, FTTx), building cabling (LAN, campus), data center, industry, laboratory and medical technology
- for cables with single core elements 600/900µm (e.g. buffered fiber for pigtails, breakout, mini breakout, figure "0" and figure "8" cables)
- A/B polarity of duplex connectors easily changeable without tools
- Translucence protection cap, fast and secure to handle and permeable for the light of laser pointers (visual fault locators)

Standards

LC-Simplex/Duplex connector according to IEC/DINEN 61754-20 and EIA/TIA 604-10

Material

- Ferrule: Zirconia ceramic, Ø 1.25 mm
- Body: PEI, flammability UL94-V0
- Boot: TPE, flammability UL94-V0
- Protection cap: POM, flammability UL94-HB

Optical properties

The quality feature of the connector at your product is identified by the part number:

- BASIC: Part numbers like XXXAXXXX
- PURE: Part numbers with "P" at their end, XXXAXXXXP

Details about PURE see Produktinfo\_Qualitätsmerkmal-PURE\_od

Insertion Loss IL acc. to IEC61300-3-4, Method B, against reference, maximum [dB]:

	Quality feature	BASIC	PURE
- Singlemode SM, 9/125µm		0,30	0,20
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm		0,15	0,15

Insertion Loss IL „random mated“ acc. to IEC61300-3-34, Method 2, [dB]:

Qualitätsmerkmal BASIC	Mittelwert	Maximum
- Singlemode SM, 9/125µm	0,13	0,50
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm	0,03	0,27

Insertion Loss IL quality feature PURE "random mated" application limit value, maximum [dB]:

- Singlemode SM, 9/125µm	97%	0,25
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm	100%	0,40

**GHMT PVP certificate**  
**No.: c5711X-XX**  
**No.: c5937X-XX**



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LC-Simplex/Duplex connector

Optical properties

Return Loss RL acc. to IEC61300-3-6, Method 1, against reference, minimum [dB]:

	Quality feature	BASIC	PURE
- Singlemode SM, 9/125µm, PC 0°		45	45
- Singlemode SM, 9/125µm, UPC 0°		55	55
- Singlemode SM, 9/125µm, APC 8°		65	70
- Multimode all 50µ OM classes		35	40

Mechanical properties

- Mating cycles min. 1000, IL increase < 0.2 dB
- Strain relief max. 100 N, dependent on cable type

Thermal properties

- Operation temperature range -40°C to +85°C, dependent on cable type
- Storage temperature range -40°C to +85°C

Cable diameters

- Round cable types Ø 0,9 bis 3.0 mm
- Hotmelt Duplex Ø 4,8 ~ 7.0mm

Colors

Connector body / boot:

- Singlemode SM, 9/125µm, PC and UPC 0° blue / blue
- Singlemode SM, 9/125µm, APC 8° green / green
- Multimode OM2, OM3, OM4, OM5, 50/125µm black / black

Polarity change

Step 1: Remove duplex clip

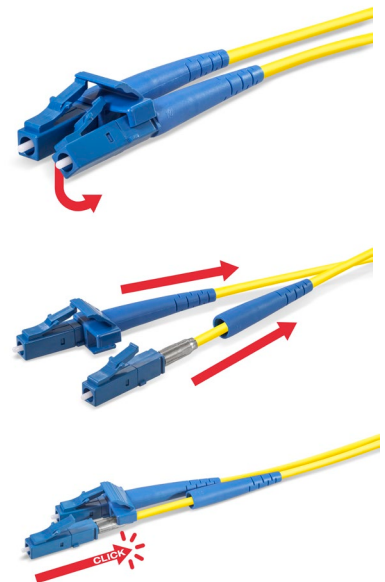
- When changing polarity, the release levers should be facing up as shown in the picture.
- Remove one of two simplex connectors from the duplex clip by pressing down and out, supported by a slight tilt movement.
- Then release the second simplex connector from the duplex clip in a similar manner.

Step 2: Reattach duplex clip

- Push back the boot of both simplex connectors
- Reattach the duplex clip over the simplex connectors that have been changed in position and insert the simplex connectors (a click is noticeable).

Step 3: Final assembly duplex connector

- Slide the boot of both simplex connectors to their original position.



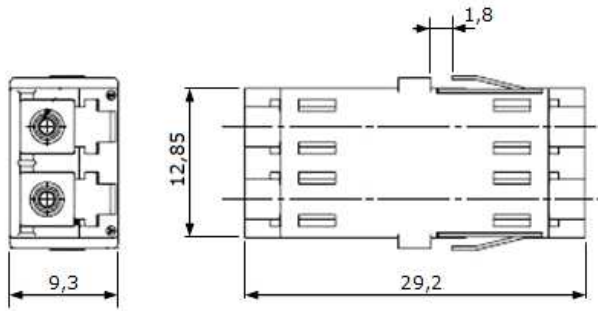
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
S. Wiener	16.03.2021	H. Jungbäck	2021-03-16	003		H. Jungbäck	2022-10-07

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LC-Duplex Adapter  
(sen./sen.) without flange

98 LCK8 LC-K02-XX



All dimensions are in mm; tolerances acc. ISO 2768 m-H

**Properties**

The LC is a small-Form-Factor connectivity system for applications which require a high packaging density.

**Interface**

LC Adapter, acc. to DIN EN 61754-20

**Material for Adapter**

Housing : Plastic  
Sleeve : Ceramic

**Optical data**

Insertion Loss : S/M <0.20 dB  
M/M <0.20 dB

**Mechanical data**

Mating cycle > 500

**Environmental data**

Operation temperature range -40°C...+85°C  
Storage temperature range -40°C...+85°C

**Part Number**

Type	Color	Part Number
Singlemode 9/125, PC	blue	98LCK8 LC-K02-bu
Singlemode 9/125, APC	green	98LCK8 LC-K02-gn
Multimode, 50/125, OM2	black	98LCK8 LC-K02-bk
Multimode, 50/125, OM3	turquoise	98LCK8 LC-K02-tk
Multimode, 50/125, OM4	violett	98LCK8 LC-K02-vt
Multimode, 62.5/125	beige	98LCK8 LC-K02-be

**Packaging**

Standard packaging

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Y.Zhang	08.02.2017	H.Jungbäck	08.02.2017	001	---	Y.Zhang	08.02.2017