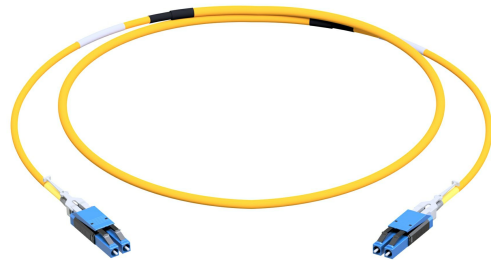


PRODUCTPROFILE

Catalogue number: 087A6960G657A1

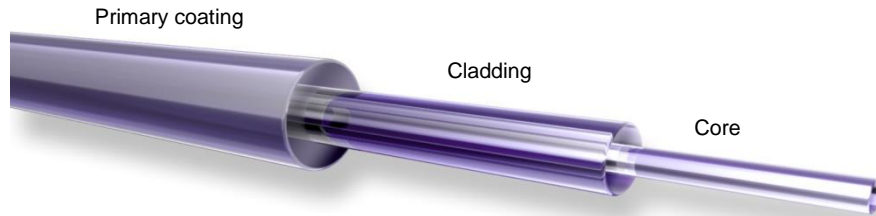
Partnumber: 20102329

Fiber optic duplex patchcord
Connector side A: LC-COMPACT Push Pull Tab SM
Connector side B: LC-COMPACT Push Pull Tab SM
9/125µm, 4.0mm, yellow
Polarity: crossed A to B
Cable I-V(ZN)H(ZN)H2E9/125µmG657A1



Related documents:

DS_FASER G657A1_OE	Fiber Data Sheet
DS_I-VZNHZNH2_4_2X600_L_OE	Kabeldatenblatt
DS_LC_COMPACT_PPTNG_STECKER_C	Steckerdatenblatt



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:

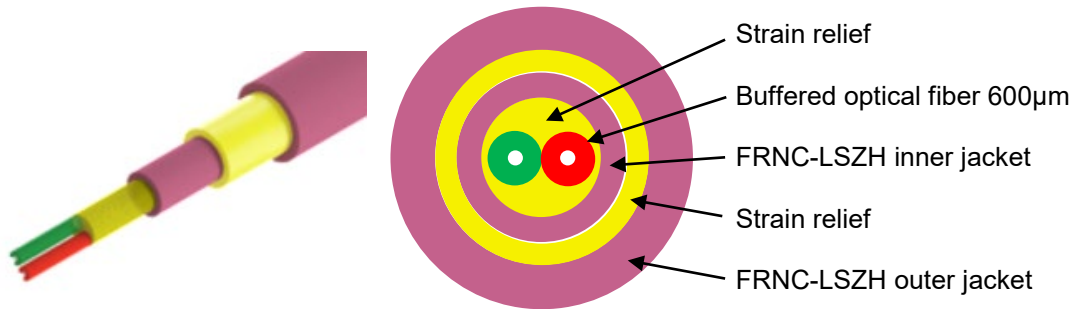
@ 1310 nm 1.4676
@ 1550 nm 1.4682

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



Standards

IEC 60794-2

Structure

Cable:

- Double jacket cable
- 2 buffered optical fibers 600µm within the inner cable jacket filled with Aramid strain relief elements
- Aramid strain relief elements between inner and outer cable jacket
- Buffered fiber color code: One buffered fiber red, the other buffered fiber at singlemode yellow, at 50µm multimode green

Inner and outer jacket:

- FRNC-LSZH flame-retardant and halogen-free material
- Standard jacket colors:
 - Singlemode: yellow
 - Multimode OM2: orange or green
 - Multimode OM3: aqua (turquoise)
 - Multimode OM4: violet
 - Multimode OM5: fibrous green
- Wall thickness see geometrical properties
- Inkjet marking black acc. to separate drawing

Geometrical properties

Number of fibers	Diameter [mm]		Jacket wall thickness [mm]		Weight [kg/km]	Fire load [MJ/m]
	Inner	Outer	Inner	Outer		
2	2.0	4.0	0.3	0.7	20	0.40

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Fiber Optic Cable
I-V(ZN)H(ZN)H 2.0/4.0mm 2x600

032AXXXX

Mechanical properties

- Min. bending radius fixed (static) = 60 mm
- Min. bending radius during installation (dynamic) = 80 mm
- Max. tensile force short term = 600 N
- Max. crush resistance long term = 300 N/dm
- Kink resistance: Equivalent loop diameter = t.b.t.

Thermal properties

- Transport and storage - 25°C to + 70°C
- Installation - 5°C to + 50°C
- In use - 10°C to + 70°C

Chemical properties

No resistance to oil, petrol, acid, leach and water

Fire performance

- Flame-retardant acc. to IEC 60332-1-2
- Smoke density acc. to IEC 61034
- Halogen-free acc. to IEC 60754-1
- Acidity of the combustion gases acc. to IEC 60754-2

Transmission characteristics

See fiber data sheets

Applications

Indoor cable particularly appropriate for long LC-Compact, MU-Compact, MDC and SN patchcords

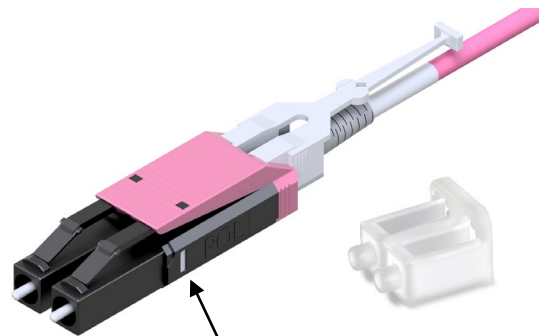
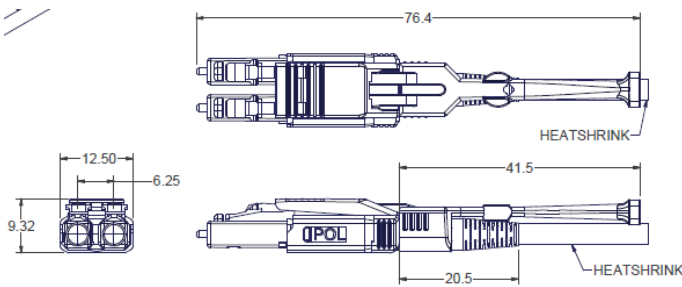
Deliveryform

On one-way drums

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	2022-11-24	R. Mees	2022-11-24	001	without	---	---

LC-COMPACT Push-Pull-Tab Connector Next Generation



Delivery status of polarity window POL:
 - at this connector side (B) = white
 - at the opposite connector side (A) = black

Properties and applications

- LC-Duplex Push-Pull connector with compact and rugged backshell with central strain relief and push-pull-tab, with which the connector can be plugged and un-plugged
- A/B polarity easy and secure, toolless changeable
- For HIGH-DENSITY (HD) and ULTRA-HIGH-DENSITY (UHD) applications required
- Translucence duplex protection cap, fast and secure to handle and permeable for the light of laser pointers (visual fault locators)

Standards

LC-Duplex acc. to IEC/DINEN 61754-20 and EIA/TIA 604-10

Material

- Ferrule: Zirconia ceramic, Ø 1.25 mm
- Body: PA, PBT and PTFE, flammability UL94-V0
- Push-Pull-Tab: PBT, flammability UL94-V0
- Protection cap: TPE, 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 OM1, 62.5/125µm		0.30	---
- 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]:

Quality feature	BASIC	mean value	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

LC-COMPACT Push-Pull-Tab
Connector Next Generation

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 classes		35	40

Mechanical properties

- Mating cycles min. 500, 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 2.0 to 3.0 mm

Colors

Connector body / boot:

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

Polarity change

See the video of our LC-COMPACT Push-Pull-Boot. Its polarity change is equal, since it is the same connector body, the only difference is Push-Pull-Tab instead of Push-Pull-Boot.



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Gezeichnet	Datum	Freigegeben	Datum	Rev.	Änderungsnummer	Name	Datum
H. Jungbäck	2022-01-20	R. Mees	2022-01-20	003	---	H. Jungbäck	2022-10-07

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