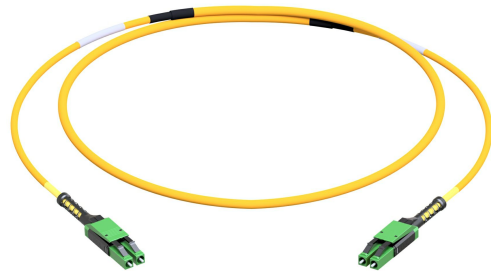


PRODUCTPROFILE

Catalogue number: 087A6959G657A1

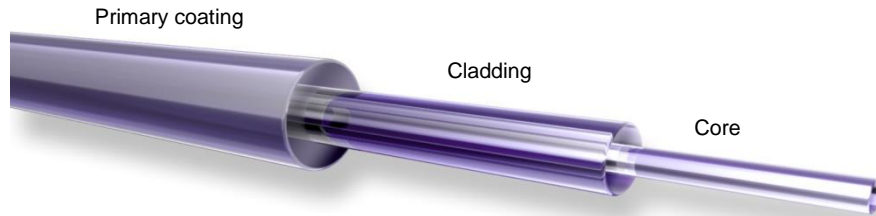
Partnumber: 20102328

Fiber optic duplex patchcord
Connector side A: LC-COMPACT Push Pull Boot
SM APC
Connector side B: LC-COMPACT Push Pull Boot
SM APC
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_PPB_STECKER_OE	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:

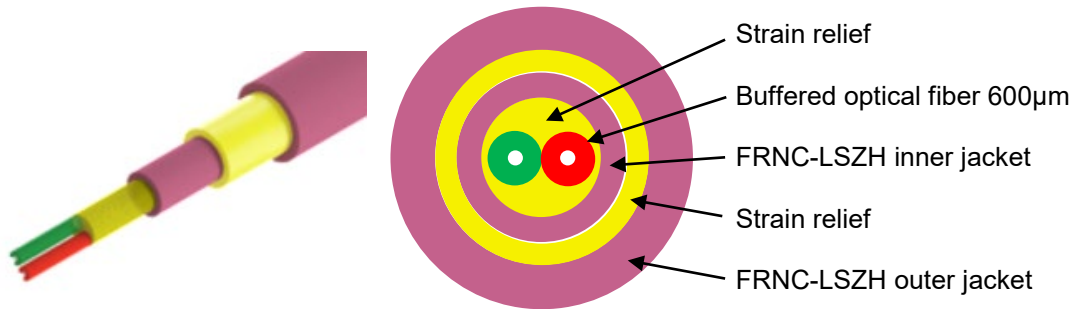
@ 1310 nm 1.4676
@ 1550 nm 1.4682

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	---	---