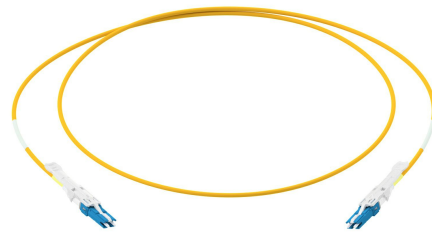


PRODUCTPROFILE

Catalogue number: 094A0001G657A1-2000

Partnumber: 20103331

Fiber optic duplex patchcord
Connector side A: CS EZ-Flip SM
Connector side B: CS EZ-Flip SM
Polarity: crossed A to B
I-V(ZN)H2E9/125µm,G657A1,2.0mm,yellow
Length: 2,0 m

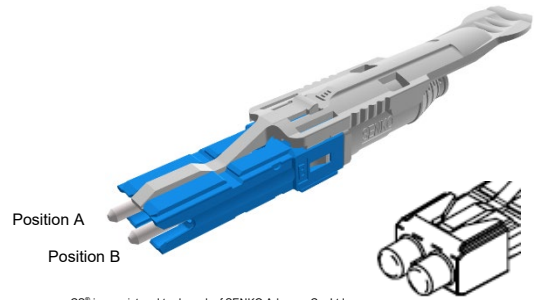
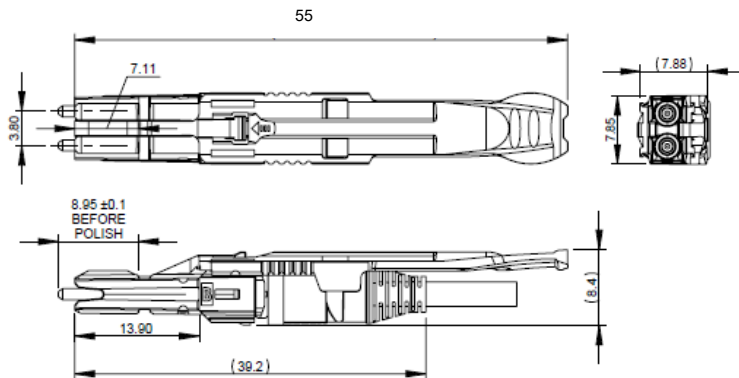


Related documents:

DS_CS-EZFLIP_STECKER_OE
DS_FASER G657A1_OE
DS_I-VZNH20_2X600_L_OE

Steckerdatenblatt
Fiber Data Sheet
Cable Data Sheet

CS® EZ-Flip connector



CS® is a registered trademark of SENKO Advance Co. Ltd.

Properties and applications

- CS® (Connector Senko) EZ-Flip of category Very-Small-Form-Faktor (VSFF) connector
- Even of its miniature design the connector has a rugged housing 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
- To attach transceivers with CS® interface and for infrastructure cabling

Standards

TIA-604-19 (in this standard the CS® is called SEN)

Material

- Ferrule: Zirconia ceramic, Ø 1.25 mm
- Body: Plastic, flammability UL94-V0
- Push-Pull-Tab: Plastic, flammability UL94-V0
- Protection cap: Plastic, flammability UL94-V0

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

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CS® EZ-Flip 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 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

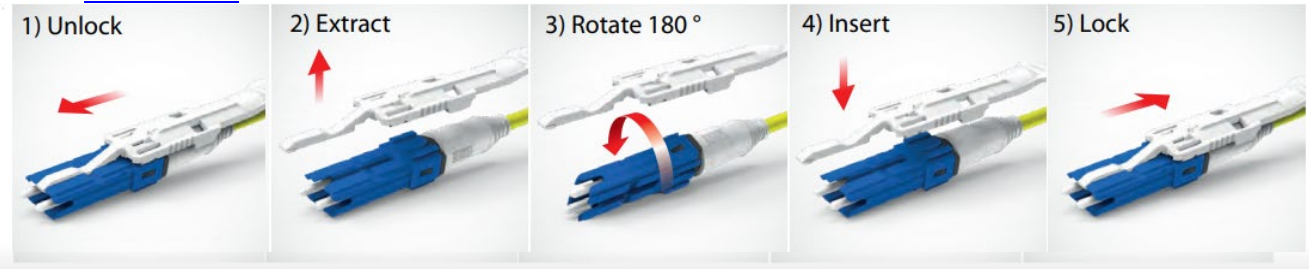
Colors

Connector body / boot:

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

Polarity change

Source www.senko.com



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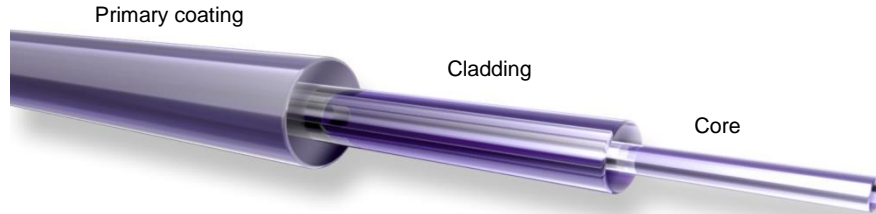
For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	2023-07-03	S. Gleich	2023-07-03	001	---	---	---

Rosenberger-OSI GmbH & Co. OHG Endorferstr. 6 86167 Augsburg Germany www.rosenberger.com/osi	Tel. : +49 821 249249-0 E-Mail : info-osi@rosenberger.com	Page 2 / 2
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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

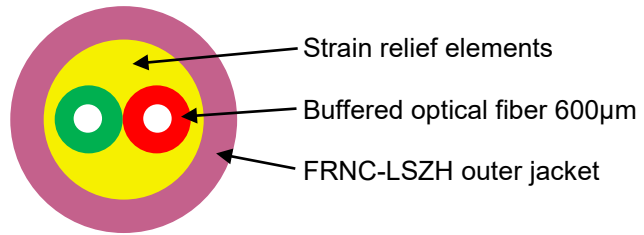
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	12-04-15	P. Maier	12-04-15	001	without	H. Jungbäck	12-04-15

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

032AXXXX



Standards

-IEC 60794-2

Structure

Cable:

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

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 0.3 mm
- Inkjet marking black acc. to separate drawing

Geometrical properties

Number of fibers	Outer diameter [mm]	Weight [kg/km]	Fire load [MJ/m]
2	2.0	4	0.11

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Mechanical properties

- Min. bending radius fixed (static):
 - with G.657.A1 bend-insensitive singlemode fiber 10 mm
 - with bend-insensitive OM3 and OM4 fiber 7.5 mm
- Min. bending radius during installation (dynamic):
 - with G.657.A1 bend-insensitive singlemode fiber 30 mm
 - with bend-insensitive OM3 and OM4 fiber 25 mm
- Max. tensile force short term = 300 N
- Max. crush resistance long term = 150 N/dm
- Kink resistance: Equivalent loop diameter = 8.4 mm

Thermal properties

- Transport and storage - 25°C to + 70°C
- Installation - 5°C to + 50°C
- In use - 5°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 short LC-Compact and MU-Compact Patchcords

Deliveryform

- On one-way drums

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	2016-02-02	P. Maier	2016-02-02	003	without	H. Jungbäck	2021-08-25