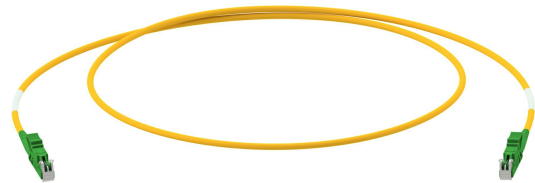


PRODUCTPROFILE

Catalogue number: 069A2131G657A1

Partnumber: 20101992

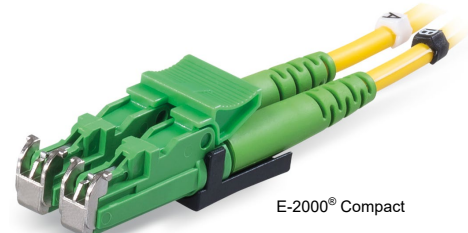
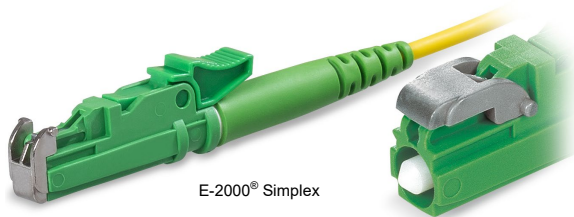
Fiber optic simplex patchcord
Connector side A: E2000HRL Cat. 0.1dB Simplex
SM RdM
Connector side B: E2000HRL Cat. 0.1dB Simplex
SM RdM
9/125µm, 2.1mm, yellow
Cable I-V(ZN)H1x2,1E9/125µm,G657A1



Related documents:

DS_E2000_HRL01DB_OE	0.1dB
DS_FASER G657A1_OE	Fiber Data Sheet
DS_I-VZNH1X21TB900A_L_OE	Cable Data Sheet

E-2000® HRL (APC 8°) connector category 0.1 dB



E-2000® is a registered trademark of DIAMOND SA

Properties and applications

- Our E-2000® HRL category 0.1 dB is a singlemode APC 8° fiber optic connector with solid-ceramic ferrule for all singlemode applications with particularly high requirements on optical transmission quality and protection of the connector ferrule, e.g. metropolitan (MAN) and long-haul (WAN) fiber optic networks and FTTx.
- Through its precision ferrule and its tuning with excentricity limit smaller than DINEN 61755-3-2 grade B specification, our E-2000® HRL category 0.1 dB reaches lowest insertion loss IL and highest return loss RL values at „each-to-each“ (random-mated) connections.
- With automatically closing metal shutter for protection against laser light and contamination of the connector ferrule, protection class IP40

Standards

IEC 61754-15 (LSH), tuning with excentricity limit smaller than DINEN 61755-3-2 grade B specification

Material

- Ferrule: Zirconia ceramic, Ø 2.50 mm
- Connector body: PBT, flammability UL94-V0
- Boot: TPR, flammability UL94-V0
- Protection shutter: Metal, not flammable

Optical properties

- Insertion Loss IL acc. to IEC61300-3-4, Method B, against reference, maximum [dB]: 0.15
- Insertion Loss IL „random mated“ acc. to IEC61300-3-34, Method 2, [dB]: Mean 0.12 / Maximum 0.28
- Return Loss RL acc. to IEC61300-3-6, Method 1, against reference, minimum [dB]: 80

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 to 3.0 mm

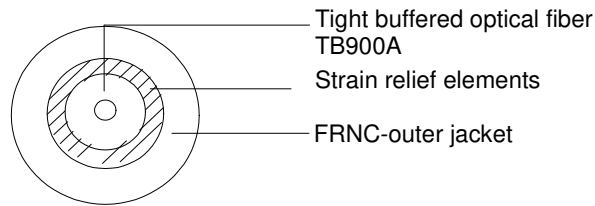
Colors

- Connector body: Green
- Boot: Green
- Protection shutter: Silver

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	2022-11-21	M. Komarow	2022-11-21	008		---	---

Fiber Optic Cable
I-V(ZN)H 1x 2.1mm... TB900A



Standards

IEC 60794-2

Structure

Cable core TB900A = tight buffered optical fibre, acrylat upcoating, outer diameter 900 µm
colour: yellow (E9/125), green (G50/125), blue (G62.5/125)
Strain relief elements (aramid)

Outer jacket: Halogen-free and flame-retardant material, approx. 0.3 mm wall,
Standard colours: Singlemode: yellow
Multimode 50 µm: orange or green
Multimode OM3: aqua (turquoise)
Multimode 62,5 µm: orange
Multimode OM4: violet

Other colours on request
Outer diameter 2.1 mm
Marking see separate drawing

Mechanical properties

Min. bending radius	static	30mm
	dynamic	60mm
Min. bending radius with G657A	static	15mm
	dynamic	30mm
Max. pull force		300 N
Max. crush resistance long term		100 N/dm
Weight		5.1 kg/km approx.

Thermal properties

Transport and storage	- 25°C to + 70°C
Installation	- 10°C to + 50°C
In use	- 20°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 and IEC 60332-3-22 Cat. A
- Smoke density acc. to IEC 61034
- Halogen-free acc. to IEC 60754-1
- Acidity of the combustion gases acc. to IEC 60754-2
- Fire Load 0.12 MJ/m

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Fiber Optic Cable
I-V(ZN)H 1x 2.1mm... TB900A

Transmission characteristics

See fiber data sheets

Applications

**Indoor cable for the installation in cable ducts and in tubes and also suitable for interconnections
For direct connector assembly**

Deliveryform

Disposable drums

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	02.09.2005	DE	13.07.2015	004	without	Y. Zhang	22.06.2017