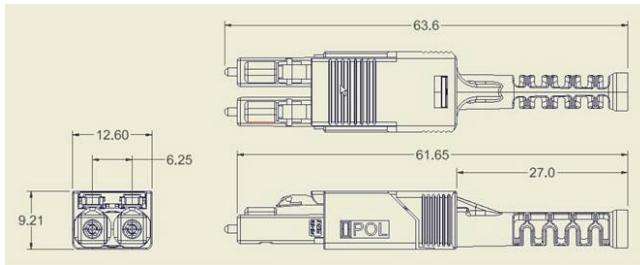


LC-COMPACT Push-Pull-Boot connector



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-boot, 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)
- *The surfaces of the connectors in the quality feature LOTUS are coated in order to achieve a dust-, grease- and humidity repellent characteristic. In the unlikely case cleaning might be necessary it has to be carried out in a contact-free way by compressed air, only. Abrasive cleaning tools like reel cleaner or click cleaner must not be applied.*

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-Boot: PP, flammability UL94-V0
- Protection cap: TPE, flammability UL94-HB

Optical properties

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

	Quality feature	BASIC	PURE	LOTUS
- Singlemode SM, 9/125µm		0.30	0.20	0.30
- Multimode OM1, 62.5/125µm		0.30	---	---
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm		0.15	0.15	0.15

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

Quality feature BASIC and LOTUS	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

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

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

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LC-COMPACT Push-Pull-Boot connector

Mechanical properties

- Mating cycles quality feature BASIC and PURE
- Mating cycles quality feature LOTUS
- Strain relief

min. 500, IL increase < 0.2 dB
 min. 150, IL increase < 0.2 dB
 max. 100 N, dependent on cable type

Thermal properties

- Operation temperature range
- Storage temperature range

-40°C to +85°C, dependent on cable type
 -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°
- Singlemode SM, 9/125µm, APC 8°
- Multimode OM3, 50/125µm
- Multimode OM4, 50/125µm

black and blue / black
 black and green / black
 black and aqua / black
 black and violet / black

Polarity change

See our video



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	2020-03-26	A. Burggraf	2020-03-26	001	----		