

Properties

Small-Form-Factor Connector for high-end cabling systems in Telecommunication, data center, LAN as interface for active components.

The surfaces of the connectors in the quality level 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.

Interface

LC, acc. To DIN EN 61754-20

Material for connectors

Ferrule: Zirconia ceramic, 2 x Ø1.25 mm
 Body: Plastics
 Boot: Plastics

Optical data

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

	Quality levels	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 level 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 level PURE “random mated” application limit value, maximum [dB]:

- Singlemode SM, 9/125µm	97%	0.25
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm0,03	100%	0.40

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

	Quality levels	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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Mechanical data

- | | |
|--|--------------------------------------|
| - Mating cycles quality level BASIC and PURE | min. 500, IL increase < 0.2 dB |
| - Mating cycles quality level LOTUS | min. 150, IL increase < 0.2 dB |
| - Strain relief | > 70 N (dependent on the cable type) |

Environmental data

- | | |
|-----------------------------|----------------|
| Operation temperature range | -40°C to +85°C |
| Storage temperature range | -40°C to +85°C |

Suitable cables

- | | |
|-------------------|---------------|
| Round Cable Types | Ø0.9 ~ 3.0 mm |
| Hotmelt | Ø4.8 ~ 7.0 mm |

LC Duplex pitch

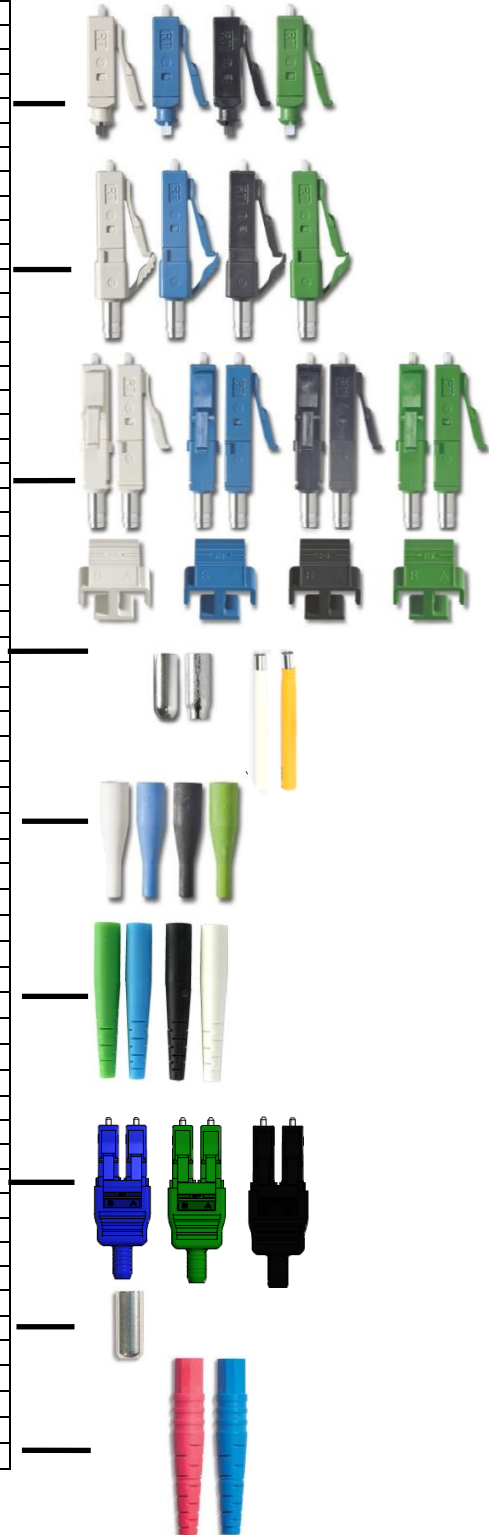
- | | |
|--------------------|---------|
| Standard LC Duplex | 6.25 mm |
| Mini LC Duplex | 5.25 mm |

Packaging

Standard Packaging.

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Connector part		Part No.
Connector Body, simplex, buffer Ø 0.9		
Singlemode, PC	blue	98 LCS 120-101
Singlemode, APC	green	98 LCS 110-101
Multimode, 50 µm	black	98 LCS 130-101
Multimode, 50 µm	black, low-loss	98 LCS 130-109
Multimode, 62.5 µm	beige	98 LCS 130-102
Connector Body, simplex, cable		
Singlemode, PC	blue	98 LCS 120-102
Singlemode, APC	green	98 LCS 110-102
Multimode, 50 µm	black	98 LCS 130-103
Multimode, 50 µm	black, low-loss	98 LCS 130-110
Multimode, 62.5 µm	beige	98 LCS 130-104
Connector Body, duplex, with duplex Clip		
Singlemode, PC	blue	98 LCS 120-103
Singlemode, APC	green	98 LCS 110-103
Multimode, 50 µm	black	98 LCS 130-105
Multimode, 50 µm	black, low-loss	98 LCS 130-107
Multimode, 62.5 µm	beige	98 LCS 130-106
Crimp Ring		
Ø 1.6-1.8		98 ZC 13-000
Ø 2.0-2.2		98 ZC 02-000
Ø 2.4-3.0		98 ZC 03-000
Cable Boot		
Ø 0.9 mm	black	98 ZB 01-0BK
Ø 0.9 mm	blue	98 ZB 01-0BU
Ø 0.9 mm	green	98 ZB 01-0GN
Ø 0.9 mm	white	98 ZB 01-0WH
Ø 2.0-2.2 mm	black	98 ZB 02-0BK
Ø 2.0-2.2 mm	blue	98 ZB 02-0BU
Ø 2.0-2.2 mm	green	98 ZB 02-0GN
Ø 2.0-2.2 mm	white	98 ZB 02-0WH
Ø 1.6-1.8mm and 2.4-3.0 mm	black	98 ZB 03-0BK
Ø 1.6-1.8mm and 2.4-3.0 mm	blue	98 ZB 03-0BU
Ø 1.6-1.8mm and 2.4-3.0 mm	green	98 ZB 03-0GN
Ø 1.6-1.8mm and 2.4-3.0 mm	white	98 ZB 03-0WH
Connector Body, compact, LCcp		
Singlemode, PC	blue	98 LCS 120-205
Singlemode, APC	green	98 LCS 110-205
Multimode, 50 µm	black	98 LCS 130-207
Multimode, 50 µm	black, low-loss	98 LCS 130-209
Multimode, 62.5 µm	beige	98 LCS 130-208
Crimp Ring(Compact)		
Ø 2.4-3.0		98 ZC 04-000
Cable Boot(Compact)		
Ø 2.4-3.0 mm	black	98 ZB 04-0BK
Ø 2.4-3.0 mm	blue	98 ZB 04-0BU
Ø 2.4-3.0 mm	green	98 ZB 04-0GN
Ø 2.4-3.0 mm	yellow	98 ZB 04-0YE



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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Y. Zhang	07.02.2017	H. Jungbäck	07.02.2017	007		H. Jungbäck	13.05.2019