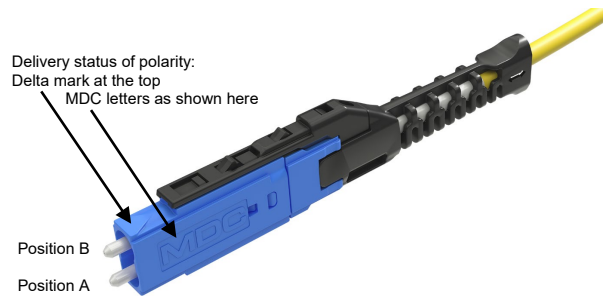
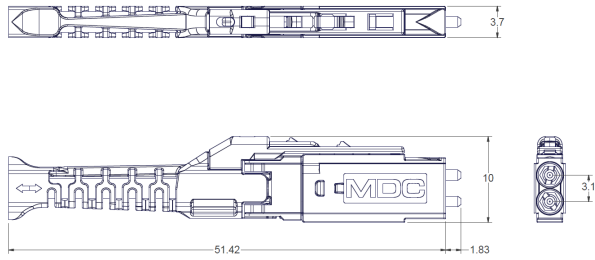


MDC Senior connector



Properties and applications

- MDC (Miniature Duplex Connector) of category Very-Small-Form-Faktor (VSFF) connector, Senior type
- Even of its miniature design the connector has a rugged housing 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
- To attach transceivers with MDC interface and for MEGA-HIGH-DENSITY (MHD) infrastructure cabling

Standards

IEC 61754-37

Material

- Ferrule: Zirconia ceramic, Ø 1.25 mm
- Body: PEI, flammability UL94-V0
- Push-Pull-Boot: PP, flammability UL94-V0
- Protection cap: PC, 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
- LOTUS: Part numbers with "L" at their end, XXXAXXXXL

Details about PURE see Produktinfo_Qualitätsmerkmal-PURE_od, about LOTUS tbd

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	tbd
- Multimode OM1, 62.5/125µm		0.30	---	---
- Multimode low IL OM2, OM3, OM4, OM5, 50/125µm		0.15	0.15	tbd

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

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MDC Senior connector

Optical properties

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	tbd
- Singlemode SM, 9/125µm, UPC 0°		55	55	tbd
- Singlemode SM, 9/125µm, APC 8°		65	70	tbd
- Multimode all classes		35	40	tbd

Mechanical properties

- Mating cycles quality feature BASIC and PURE	min. 500, IL increase < 0.2 dB
- Mating cycles quality feature LOTUS	min. 150, IL increase < 0.2 dB
- Strain relief	max. 70 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 1.2 to 2.0 mm
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Colors

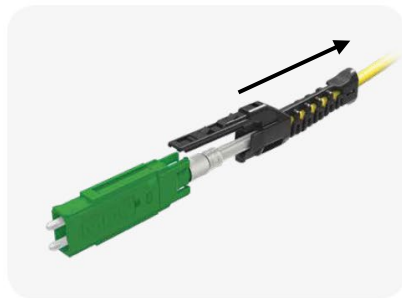
Connector body / boot:

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

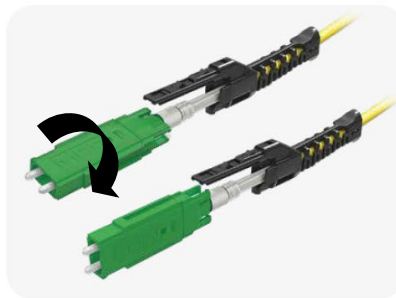
Polarity change

Source USCONEC Ltd. www.usconec.com

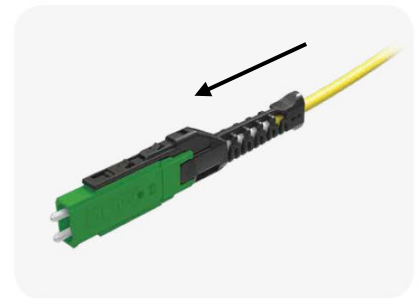
Pull of the push-pull-boot



rotate 180°



push on the push-pull-boot



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	2021-02-02	A. Burggraf	2021-02-02	002	----	H. Jungbäck	2021-08-26