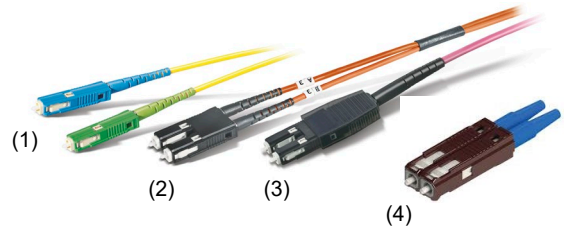
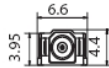
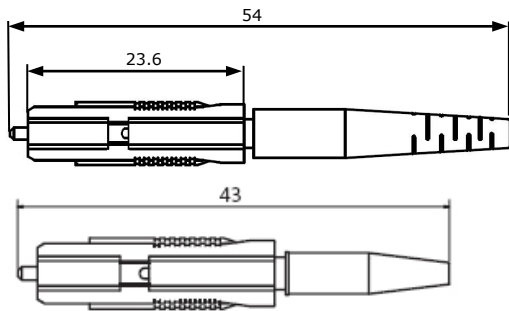


MU connector



Properties and applications

- MU (Miniature Unit) has been the first Small-Form-Faktor (SFF) connector at the market, called Mini-SC as well
- The 1.25mm full-ceramic ferrule, used in many connectors today, was developed for the MU
- Real push-pull connector, like SC
- MU connector types:
 - (1) Simplex
 - (2) Duplex-Horizontal
 - (3) Duplex-Horizontal-COMPACT with central strain relief and boot for round cable (Uniboot)
 - (4) Duplex-Vertical
- A/B polarity not changeable
- To attach transceivers with MU interface and for infrastructure cabling

Standards

MU acc. to IEC 61754-6

Material

- Ferrule: Zirconia ceramic, Ø 1.25 mm
- Body: PPE, flammability UL94-V1
- Boot: TPE, 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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MU 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. 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
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Colors

Connector body / boot:

- Singlemode SM, 9/125µm, PC and UPC 0°	blue / blue
- Singlemode SM, 9/125µm, APC 8°	green / green
- Multimode OM2, OM3, OM4, OM5, 50/125µm	black / black

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Y.Zhang	2017-03-30	H.Jungbäck	2017-03-30	003	----	H. Jungbäck	2023-06-20