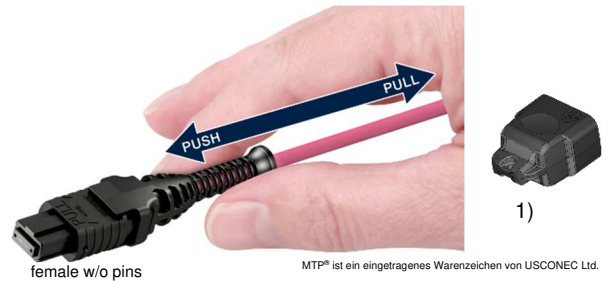
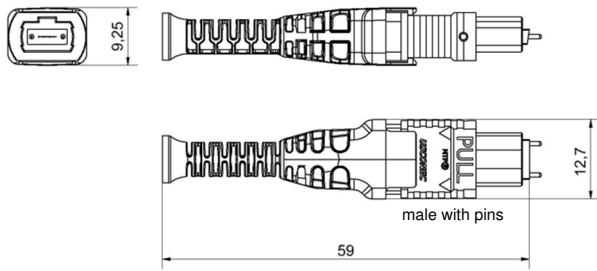


MTP®-PPB 12 fiber
Push-Pull-Boot connector



Properties and applications

- MTP® (MPO) multi-fiber connector up to 12 fibers, based on 12 fiber MT ferrules
- With strain relief and Push-Pull-Boot for round cable, with which the connector can be plugged and un-plugged
- For ULTRA-HIGH-DENSITY (UHD) applications required
- Mit pins (male) and without pins (female)
- Centered coding-key
- Multimode MTP® as PC 0°, Singlemode as APC 8° deliverable
- Polarity and gender can be changed acc. to USCONEC AEN-1405, polarity change only at PC 0° possible
- ¹⁾ With MTP® PRO protection cap, debris-repellent (better than anti-static), non-outgassing, halogen-free

Standards

IEC 61754-7 and EIA/TIA 604-5

Material

- Ferrule: PPS filled with glass particles
- Body: PBT, flammability UL94-V0
- Boot: PP, flammability UL94-V0
- Protection cap: TPO, 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

Applied USCONEC ferrule qualities:

	Quality features	BASIC	PURE
- Singlemode SM, 9/125µm all numbers of fibers		Standard	Elite
- Multimode OM2, OM3, OM4, OM5, 50/125µm		Elite	Elite

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

	Quality features	BASIC	PURE
- Singlemode SM, 9/125µm, Standard ferrule		0,40	---
- Singlemode SM, 9/125µm, Elite ferrule		0.35	0.25
- Multimode OM2, OM3, OM4, OM5, 50/125µm, Elite ferrule		0.35	0.25

Insertion Loss IL „random mated“ in application

Multimode OM2, OM3, OM4, OM5, 50/125µm, Elite ferrule [dB]:

- 12 fibers and OCTO 4+4 89% lower 0.25

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MTP®-PPB 12 fiber
Push-Pull-Boot connector

Optical properties

Insertion Loss IL quality feature PURE "random mated" application limit value, average value [dB]:

- Singlemode SM, 9/125µm 0.15
- Multimode OM2, OM3, OM4, OM5, 50/125µm 0.15

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

	Quality feature	BASIC	PURE
- Singlemode SM, 9/125µm, APC 8°		55	70
- Multimode all OM classes, PC 0°		30	30

Mechanical properties

- Mating cycles min. 500, 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 2.0 to 3.0 mm

Colors

Connector body / boot:

- Singlemode SM, 9/125µm, APC 8° green / black
- Multimode OM3, OM4, OM5 50/125µm black / black

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For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	2024-07-18	L. Meinel	2024-07-18	001	---	---	---

Rosenberger-OSI GmbH & Co. OHG Endorferstr. 6 86167 Augsburg Germany www.rosenberger.com/osi	Tel. : +49 821 249249-0 E-Mail : info-osi@rosenberger.com	Page 2 / 2
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