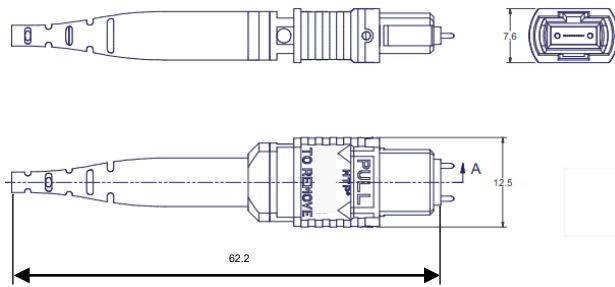


MTP® (MPO) connector n x 12 fibers



Properties and applications

- MTP® (MPO) multi-fiber connector up to 72 fibers, based on n x 12 fiber MT ferrules, with strain relief and boot for round cable
- Centric coding-key
- Multimode MTP® (MPO) are acc. to world standard PC 0° polished, Singlemode APC 8°
- Polarity and gender can be changed acc. to USCONEC AEN-1405
- 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: TPO, 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 up to 12 fibers		Elite	Elite
- Multimode OM2, OM3, OM4, OM5, 50/125µm larger 12 fibers		Standard	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
- Multimode OM2, OM3, OM4, OM5, 50/125µm, Standard ferrule		0.60	---

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
- 24 fibers	80% lower 0.25

GHMT PVP certificates
 No.: c6955X-XX
 No.: c6956X-XX



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MTP® (MPO) connector n x 12 fibers

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 4.5 mm

Colors

Connector body / boot:

- Singlemode SM, 9/125µm, APC 8° green / black
- 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	2017-03-31	H. Jungbäck	2017-03-31	005	---	H. Jungbäck	2022-10-07

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