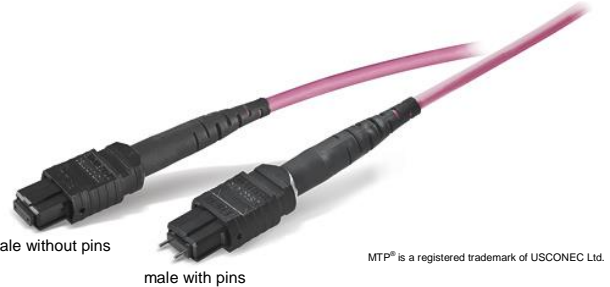
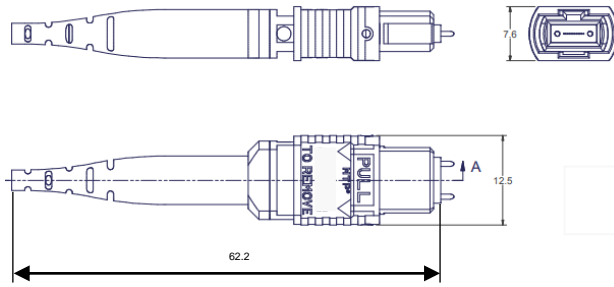


MTP® (MPO) connector n x 12 fibers



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
- *The surfaces of the connectors in the Quality feature 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 MTP®-Cleaner and reel cleaner or click cleaner must not be applied.*

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

Applied USCONEC ferrule qualities:

	Quality features	BASIC	PURE	LOTUS
- Singlemode SM, 9/125µm all numbers of fibers	Standard	Elite	Standard	
- Multimode OM2, OM3, OM4, OM5, 50/125µm up to 12 fibers	Elite	Elite	Elite	
- Multimode OM2, OM3, OM4, OM5, 50/125µm larger 12 fibers	Standard	Elite	Standard	

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

	Quality features	BASIC	PURE	LOTUS
- Singlemode SM, 9/125µm, Standard ferrule		0.60	---	tbd
- Singlemode SM, 9/125µm, Elite ferrule		0.35	0.25	tbd
- Multimode OM2, OM3, OM4, OM5, 50/125µm, Standard ferrule		0.60	---	tbd
- Multimode OM2, OM3, OM4, OM5, 50/125µm, Elite ferrule		0.35	0.25	tbd

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

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

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MTP® (MPO) connector n x 12 fibers

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, APC 8°		55	60	tbd
- Multimode all OM classes, PC 0°		30	30	tbd

Mechanical properties

- Mating cycles quality feature BASIC and PURE	min. 500, IL increase < 0.2 dB
- Mating cycles quality feature LOTUS	tbd
- 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
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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	003		H. Jungbäck	2019-07-26