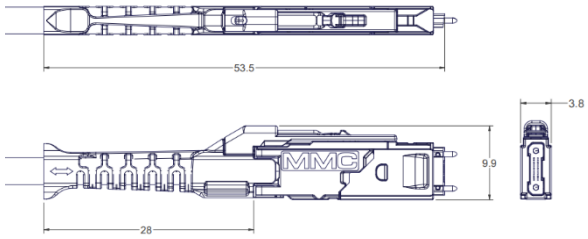
Technical Data Sheet

Rosenberger

MMC connector



male with pins



female without pins



Properties and applications

- MMC (Miniature Multifiber Connector) multi-fiber array connector of category Very-Small-Form-Faktor (VSFF), equipped with 1x12, 2x12 or 1x16 fiber Tiny-MT (TMT) ferrules with 250µm fiber-hole pitch, with cable strain relief and boot for round cable
- 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 in maximum high port density patch-fields and IT hardware
- SM and MM ferrules Elite quality, for lowest insertion loss and both APC 8° polished for highest return loss
- Polarity not changable

Standards

Telcordia GR-1435

Material

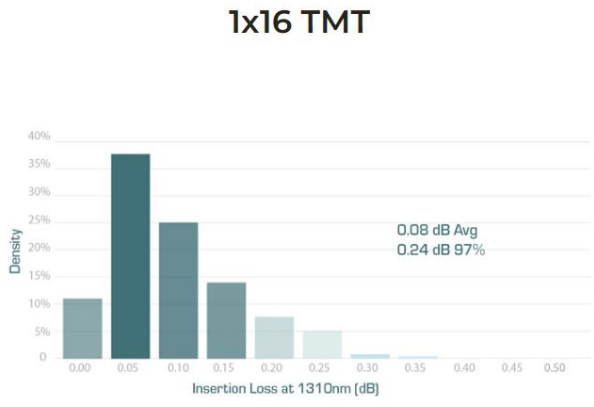
- Ferrule:	PPS filled with glass particles
- Body:	PEI, flammability UL94-V0
- Push-Pull-Boot:	PP, flammability UL94-V0
- Protection cap	PC, flammability UL94-V0

Optical properties

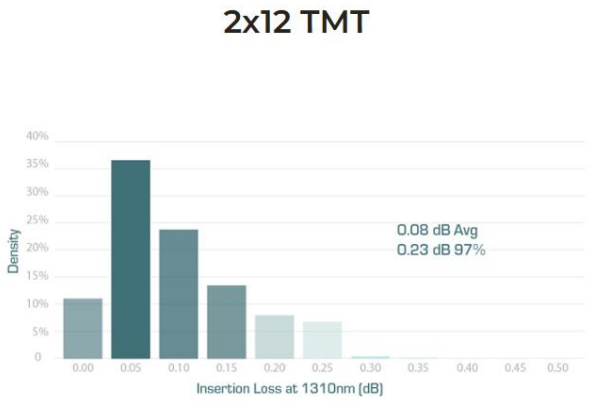
Insertion Loss IL acc. to IEC61300-3-4, Method B, against reference, maximum [dB]:

- Singlemode 9/125µm	0.35
- Multimode all OM 50/125µm classes	0.35

Insertion Loss IL „random mated“ source USCONEC Ltd.:



Insertion loss distributions for 1x16 TMT formats demonstrate the ability to achieve better than IEC Grade B performance (≥ 97% channels ≤0.25 dB).



Insertion loss distributions for 2x12 TMT formats demonstrate the ability to achieve better than IEC Grade B performance (≥ 97% channels ≤0.25 dB).

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

- Singlemode 9/125µm APC 8°	60
- Multimode all OM 50/125µm classes APC 8°	50

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Mechanical properties

- Mating cycles	min. 500, 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 2.0 to 2.5 mm

Colors

Connector body / Push-Pull-Boot:

- Singlemode SM 9/125µm	green / black
- Multimode OM3 50/125µm	aqua / black
- Multimode OM4 50/125µm	aqua or heather violet / black
- Multimode OM5 50/125µm	fibrous (lime) green / black

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

Draft	Date	Approved	Date
H. Jungbäck	2026-02-05	F. Winter	2026-02-05

Rev.	Engineering change number	Name	Date
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