

FALCON™ MINI SQUARE 38999 FP

EXPANDED BEAM CONNECTOR, SIZE 11



FEATURES

- Available in size 11
- 2-4 channels
- Market leading insertion loss <1,2 dB
- Footprint adapted to MIL-DTL-38999
- Waterproof IPx7
- Panel thickness 1.5–5.0 mm



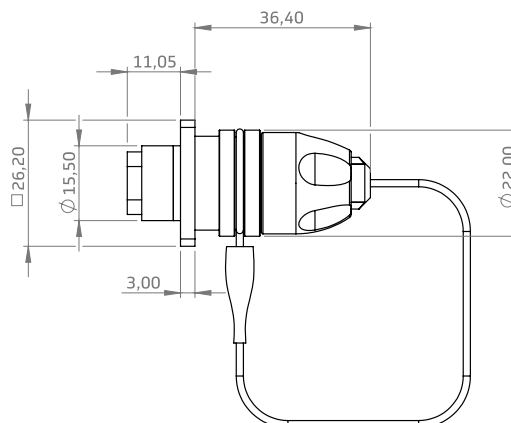
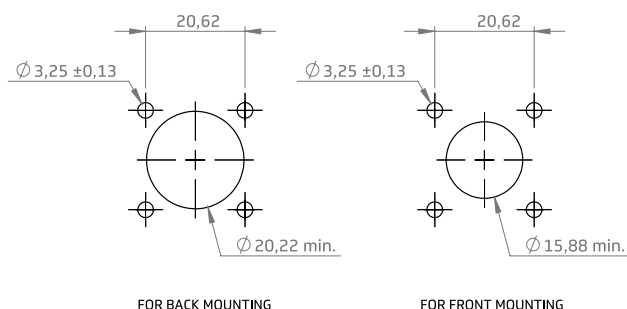
By integrating expanded beam technology into a MIL-DTL-38999 footprint users benefit from superior performance in harsh environments while maintaining full compatibility with existing 38999 footprint, size 11.

A key advantage is the ability to directly connect tactical cables fitted with size mini expanded beam connector, eliminating the need for additional adapters or interface components. In addition, the connector retains the same footprint as a standard MIL-DTL-38999 connector, size 11, enabling seamless integration into existing platforms and designs. Compared to traditional contact-based 38999 connectors, the expanded beam solution offers exceptional resistance to dust, dirt, and moisture, ensuring reliable operation even in the most demanding conditions.

Micropols Mini SQ 38999 FP expanded beam connector is equipped with our well-known FALCON expanded beam lenses. The FALCON Lenses offer market leading insertion loss at <1,2 dB and transfer speeds up to 40 Gbit/s.

SIZE 11 MINI

RECOMMENDED PANEL CUTOUT



Micropols Expanded Beam Connectors are compatible with other brands, for specification scan the QR-code.

TECHNICAL SPECIFICATION

FALCON MINI SQUARE 38999 FP



STANDARD CONFIGURATIONS

Size 11	2 to 4 channels
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OPTICAL

Type	Single-mode (SM), Multi-mode (MM) or mixed mode
Bandwidth	Up to 40Gbit/s
Insertion loss (SM)	Typical: -0.8 dB (1,310 nm) Maximum: -1.2 dB (1,310 nm)
Insertion loss (MM)	Typical: -0.8 dB (1,300 nm) Maximum: -1.0 dB (1,300 nm)
Return loss (PDL)	> 35 dB at 1,310 nm or 1,550 nm Polarization dependent loss < 0.35 dB

MECHANICAL

Durability, mating	500 reps. (TIA/EIA-455-6)
Shell material	Electroless Nickel

ENVIRONMENTAL

Operation temperature	-57 °C to +85 °C, +100 °C optional
Salt Spray	500 h

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CONTACT US