

FALCON™ 38999

EXPANDED BEAM CONNECTOR, SIZE 11 & 13



FEATURES

- Available in size 11 & 13
- Up to 12 channels in size 13
- 2-4 channels in size 11
- Self-locking threaded coupling
- Market leading insertion loss <1,2 dB
- Waterproof IPx7

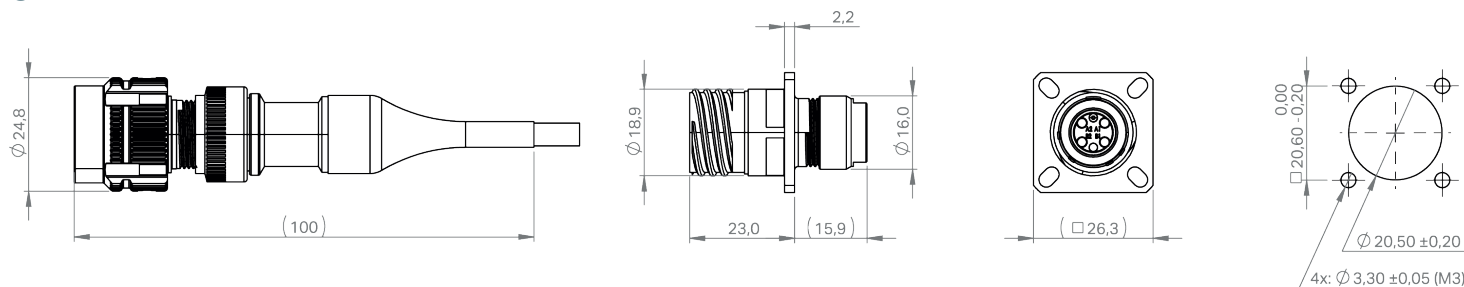


Micropol's Expanded Beam Connector is developed to meet the demands of fiber connection in harsh environments.

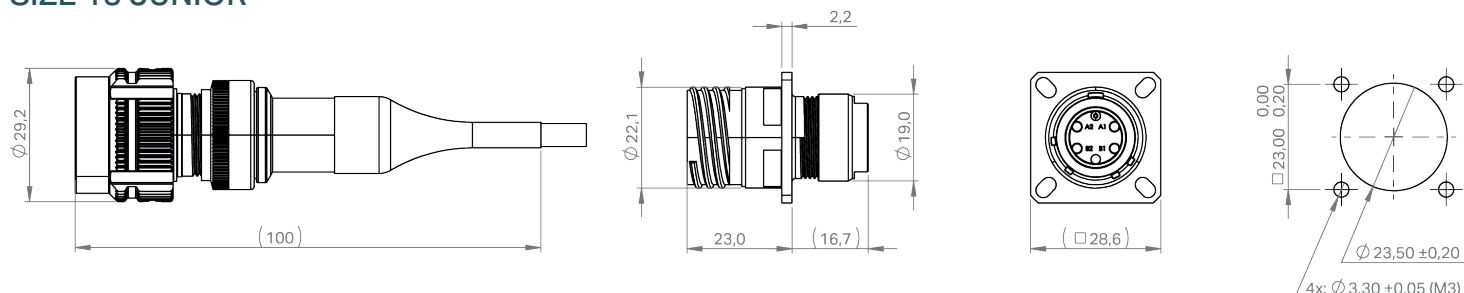
By using the expanded beam technology in 38999 connectors, you gain superior performance in harsh environments. Unlike traditional 38999 contact connectors, the expanded beam solution are highly resistant to dust, dirt, and moisture, ensuring reliable operation even under challenging conditions.

Micropol's FALCON 38999 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



SIZE 13 JUNIOR



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STANDARD CONFIGURATIONS

Size 11	2 - 4 channels
Size 13	2 - 12 channels

OPTICAL

Type	Single-mode (SM), Multi-mode (MM) or hybrid
Transmission	10Gbit/s (40Gbit/s optional)
Insertion loss (SM)	Typical insertion loss -0,8dB (1310 nm) Maximum insertion loss -1,2dB (1310 nm)
Insertion loss (MM)	Typical insertion loss -0,8dB (1300 nm) Maximum insertion loss -1,0dB (1300 nm)
Return loss (PDL)	>35dB at 1310nm or 1550nm Polarization dependent loss less than 0,35 dB

MECHANICAL

Durability, mating	500 reps. (TIA/EIA-455-6)
Shell material	Aluminium Alloy / Black Zink Nickel
O-ring material	Silicone
Peripheral Seal material	Flourosilicone
Collar material	Aluminium Alloy / Elec. Nickel

ENVIRONMENTAL

Temperature range, Operation	-57°C – +85°C
Salt Spray	500 h

V1.0, 2025-11-07

MORE INFORMATION