J599E8 Expanded-Beam Fiber-Optic Connectors (38999 Type)

Expanded beam · ≤ 0.6 dB · 2000 cycles · 38999 shell



Insertion loss	≤ 0.6 dB
Mating cycles	2000
Coupling	Triple-start thread
Temperature	–40 to +85 °C (–55 to +125 °C option)

Key features

- Expanded-beam (non-contact) optics — tolerant of dust and vibration, easy to clean
- Interface to 38999 Series III; performance per ARINC 801
- Five keys, blind mating, scoop-proof
- Triple-start threaded coupling with anti-decoupling
- Aluminum, stainless or titanium shells; many backshells
- 2000 mating cycles

Specifications

Optical

Parameter	Value	Condition
Insertion loss	≤ 0.6 dB	

Mechanical

Parameter	Value	Condition
Random vibration	10–2000 Hz, 0.4 g²/Hz (23.1 g rms)	
Shock	2940 m/s², 3 ms	
Durability	2000 mating cycles	

Environmental

Parameter	Value	Condition
Operating temperature	–40 to +85 °C	–55 to +125 °C with ETFE high-temperature fiber cable
Salt spray	500 h / 48 h	TA, K, W / F
Acid salt spray	240 h	TA, K, W
Acid atmosphere	28 days	
Mold	Grade 1, 84 days	

Shell materials and finishes

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
W	Aluminum alloy	Olive-drab cadmium	—	—	−40 to +85 °C	Marine grade
TA	Titanium alloy	None	—	—	−40 to +85 °C	Marine grade
K	Stainless steel	Passivated	—	—	−40 to +85 °C	Marine grade
F	Aluminum alloy	Nickel	—	—	−40 to +85 °C	48 h

Standards

- **GJB 599A Series III (interface)** — Shell and coupling.
- **ARINC 801 (performance)** — Fiber-optic connector performance.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J599E8