38999 Series III-Type Differential Connectors, 1.65 Gbps

Size 8 differential · 1.65 Gbps · marine grade



Coupling	Triple-start thread
Data rate	1.65 Gbps
Contacts	Size 8 differential, mixed layouts
Temperature	–65 to +200 °C

Key features

- Size 8 differential contacts, 2- or 4-conductor
- Up to 1.65 Gbps with matched impedance
- Mix with power, RF and fiber contacts
- Triple-start thread with anti-decoupling; five keys; blind mating
- Aluminum, stainless, composite or titanium shells; marine grade

Specifications

Electrical

Parameter	Value	Condition
Withstanding voltage, M / N	1300 / 1000 Vrms	Sea level
Withstanding voltage, I / II	1800 / 2300 Vrms	Sea level
Differential contact	1.65 Gbps; 1 A; 500 VAC center-to-outer; 1000 VAC between centers	

Environmental

Parameter	Value	Condition
Acid salt spray	240 h (5 × 48 h), pH 3.5 ± 0.5	GJB 150.11A
Acid atmosphere	4 cycles, pH 3.5 ± 0.5	GJB 150.28
Mold	84 days, grade 1 or better	GJB 150.10A

Shell materials and finishes

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
W	Aluminum alloy	Olive-drab cadmium	2.5 mΩ	50 dB at 10 GHz	–65 to +175 °C	Marine grade
K	Stainless steel	Passivated	10 mΩ	45 dB at 10 GHz	–65 to +200 °C	Marine grade

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
M	Composite	Nickel	1 mΩ	≥ 65 dB at 10 GHz; ≥ 85 dB at 1 GHz	−65 to +200 °C	Marine grade
J	Composite	Olive-drab cadmium	2.5 mΩ	≥ 50 dB at 10 GHz	−65 to +175 °C	Marine grade
TA	Titanium alloy	None	10 mΩ	≥ 65 dB at 10 GHz	−65 to +200 °C	Marine grade

Standards

- **GJB 599A Series III (type)** — Mating interface.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J599%20III%20differential