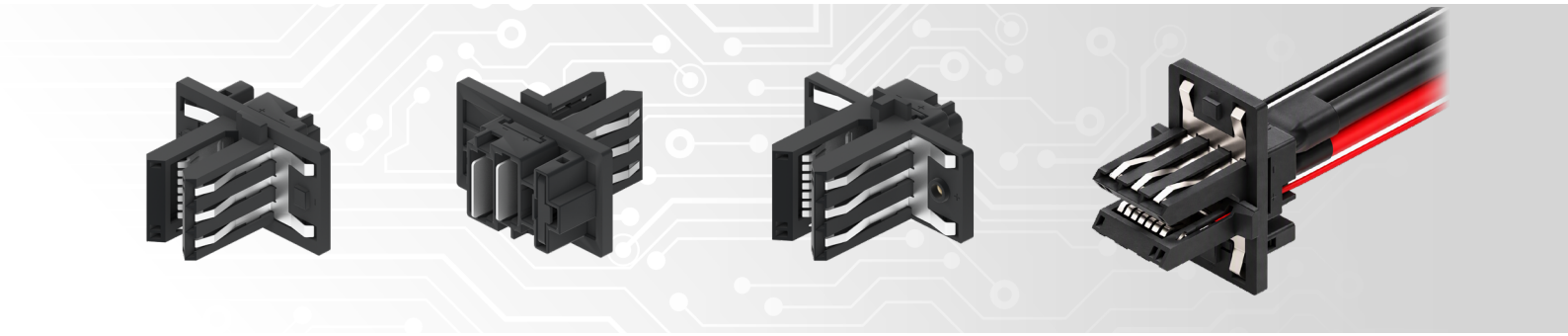
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PRODUCT BRIEF

IT GEAR CONNECTOR



BENEFITS

- Designed for OCP ORv3 48V IT Gear input connector specification
- Industry-leading contact normal force for minimum temperature rise
- Supports reliable power delivery for data centers, AI computing, battery backup and energy storage applications

FEATURES

- Tuned individual terminal contact lengths for consistent normal force and balanced current across contacts
- Protective slots around ground terminals prevent snagging during handling
- Terminal Position Assurance (TPA) to protect against terminal back-out
- Fastener or fastener-less versions for mounting flexibility
- Available as loose components, wired pigtail or customer-specific assembly

MECHANICAL & ENVIRONMENTAL PERFORMANCE

Mating Force	100 N Max
Un-mating Force	Not less than 9.73 N Min
Mating Cycles	50 cycles
Vibration Rating	EIA 364-28 Test Conditions VII E
Thermal Shock / Humidity	EIA 364-32 Method A, Test Condition VII -55 °C to +105 °C EIA 364-31 Method IV
Sealing Class	Unsealed IP20
Touch-safe Rating	Finger-proof IP2XB
Operating Temperature Range	15 °C to +70 °C (unpowered) -40 °C to +105 °C (powered)
Temperature Life Test	EIA 364-17, Method A, Test Condition V; 125 °C, 500 hours
Mating Misalignment Tolerance	6.4 mm side-to-side gatherability
Mechanical Envelope and Keep-out Zones	Supports +/- 3 mm float horizontally and vertically
Busbar Thickness Compatibility	6.0 +/- 0.2 mm per ORv3 spec

ELECTRICAL PERFORMANCE

Power Contacts	Temperature Rise per EIA 364-70 Method II; Max allowable T_{rise} : 30 °C
Operating Voltage	46-52 V DC
Contact Resistance	EIA 364-06, 0.55 mΩ max
Dielectric Withstand Voltage	1000 V DC per EIA 364-20, Method B
Current Rating	100 A Max continuous

MATERIALS

Power Contacts	High-conductivity copper
Housing	High-temperature thermoplastic, UL 94 V-0, halogen-free
Finish	Silver over nickel plating

CERTIFICATIONS

UL1977	Pending

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