

Minitek MicroSpaceXS™ 1.27mm Crimp-to-Wire Connector Platform

COMPACT, ROBUST AND VERSATILE CONNECTOR SYSTEM

Minitek MicroSpace XS™ Crimp-to-Wire connector platform's unique design meets LV214 Severity-3 and USCAR-T2V2 specifications. These 1.27mm pitch connectors come with a current rating up to 4A per contact making them ideal for higher power applications. Minitek MicrospaceXS™ connectors are available in staggered pin configuration in vertical and horizontal orientations. These SMT connectors are offered in tin or gold plating.

- LV214 Severity-3 and USCAR-T2V2 compatible
- Terminal Positioning Assurance (TPA)
- Primary and secondary contact retention
- Connector Positioning Assurance (CPA)



TARGET MARKETS



FEATURES

- Mechanical Connector Position Assurance (CPA)
- Terminal Position Assurance (TPA)
- Poka-Yoke polarization and color coding
- Current rating up to 4A per contact
- 4N normal force for vibration > 75N connector locking strength

BENEFITS

- Ensures proper mating of header and receptacle and avoids unintentional trigger of the latch
- Ensures proper terminal insertion position and retention
- Prevents visual mismatch
- Meets higher power performance requirements
- High vibration and locking resistance

TECHNICAL INFORMATION

MATERIAL

- Contact: High current alloy with optional tin and gold/GXT plating
- Housing: High temperature thermoplastic, UL94V-0
- Platings:
 - Tin (Sn): 3μ
 - Gold (Au): 0.76μ

ELECTRICAL PERFORMANCE

- Current Rating: 4A
- Voltage Rating: 48V
- Low Level Contact Resistance: <30mΩ
- Insulation Resistance: >100mΩ
- Dielectric Withstanding Voltage: 500VAC
- Temperature Rise: 30°C max.

MECHANICAL PERFORMANCE

- Terminal Insertion Force/Terminal: <3N
- Low Insertion Force Terminal:(<2N) available upon request
- Terminal Retention into Housing: >50N
- Durability:
 - 20 mating cycles for Sn
 - 100 mating cycles for Au/GXT

ENVIRONMENTAL

- Operating Temperature: -40°C to +130°C
- UL94V-0

APPROVALS AND CERTIFICATIONS

- LV214 Severity-3
- USCAR-T2V2
- VW75174 – Slow Motion Bending Test
- VW60330 – Crimp specification

SPECIFICATIONS

- Product Specification: GS-12-1465
- Packaging Specification: GS-14-2222

PACKAGING

- PCB Header: Tube
- Receptacle Housing: Bag
- Terminal: Reel

TARGET MARKETS/APPLICATIONS



Lighting
Camera / Sensor
Infotainment
HVAC
Battery Management



Automotive Lighting

PART NUMBERS

Description	Part Numbers
Minitek MicroSpaceXS™ Header Horizontal Top latch	10155500
Minitek MicroSpaceXS™ Header Horizontal Side latch	10155510
Minitek MicroSpaceXS™ Header Vertical Top latch	10155502
Minitek MicroSpaceXS™ Header Vertical Side latch	10155512
Minitek MicroSpaceXS™ Receptacle Top latch	10155504
Minitek MicroSpaceXS™ Receptacle Side latch	10155514
Minitek MicroSpaceXS™ Terminals	10155447