

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

COMPACT, ROBUST AND VERSATILE CONNECTOR SYSTEM

MicroSpaceXS™ Waterproof connector platform's unique design meets USCAR-T2V2 and LV214 Severity 2 specifications. These 1.27mm pitch connectors come with a current rating up to 3A per contact making them ideal for higher power applications. MicroSpaceXS™ waterproof connectors are available in staggered pin configuration and in Wire-to-Wire Flying configurations. These connectors are offered in tin or gold plating.

- 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 3A 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 plating
- Housing: High temperature thermoplastic, UL94V-0
- Platings:
 - Tin (Sn): 3μ
 - Gold (Au): 0.76μ

ELECTRICAL PERFORMANCE

- Current Rating: 3A
- Voltage Rating: 48V
- Low Level Contact Resistance: <30m
- Insulation Resistance: >100m
- Dielectric Withstanding Voltage: 500VAC
- Temperature Rise: 30°C max.

MECHANICAL PERFORMANCE

- Terminal Insertion Force/Terminal: <10N
- Terminal Retention into Housing: >40N
- Durability:
 - 20 mating cycles for Sn
 - 100 mating cycles for Au

SPECIFICATIONS

- Product Specification MicroSpaceXS™ Waterproof: GS-12-1634
- Product Specification MicrospaceXS™ Pin Header: GS-12-1902
- Packaging Specification: GS-14-2777

ENVIRONMENTAL

- Operating Temperature Range:
 - -40°C to +105°C for Sn
 - -40°C to +150°C for Au
- IP69K
- UL94V-0

APPROVALS AND CERTIFICATIONS

- USCAR-T2V2
- LV214 Severity-2
- VW75174 – Slow Motion Bending Test
- VW60330 – Crimp specification

PACKAGING

- WTW Header: Bag
- Pin Header: Tape and Reel
- Receptacle Housing: Bag
- Terminal: Reel

TARGET MARKETS/APPLICATIONS



Lighting
Advanced Driver Assistance Systems (ADAS)
Camera / Sensor
Infotainment
HVAC
Battery Management



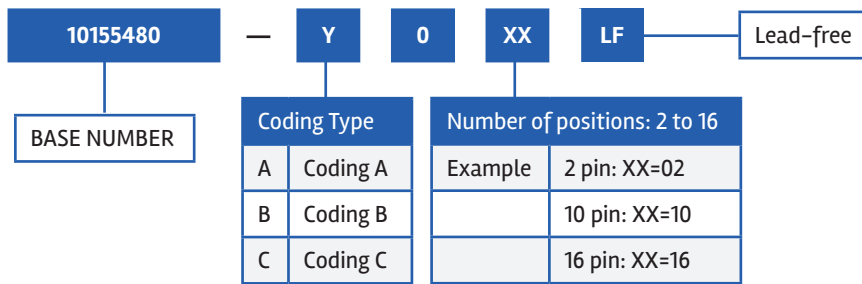
Automotive Lighting

PART NUMBERS

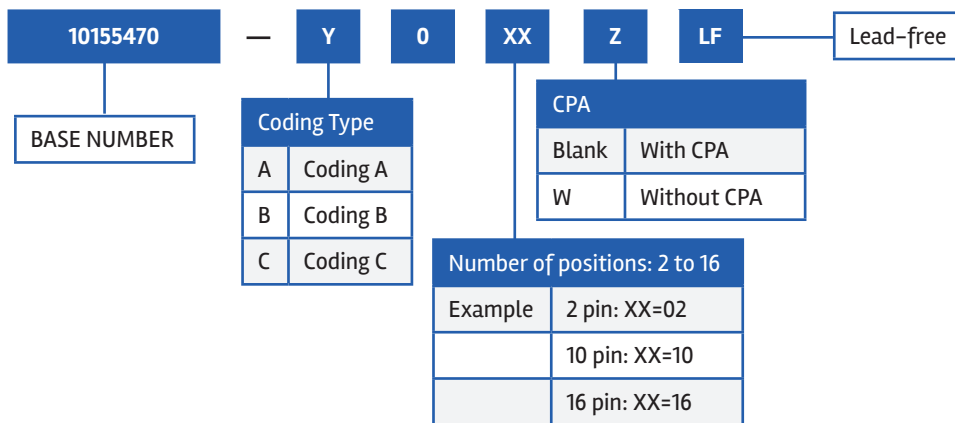
| Description | Part Numbers |
|--|--------------|
| MicroSpaceXS™ Receptacle Waterproof Top latch | 10155470 |
| MicroSpaceXS™ WTW Waterproof header | 10155480 |
| MicroSpaceXS™ Wire To Device Pin header horizontal | 10167562 |
| MicroSpaceXS™ Terminals Receptacle / Female | 10155447 |
| MicroSpaceXS™ Terminals Header / Male | 10155449 |

| Accessory | Part Numbers |
|---------------------------------------|--------------|
| MicroSpaceXS™ Waterproof Sealing Plug | 10155475 |

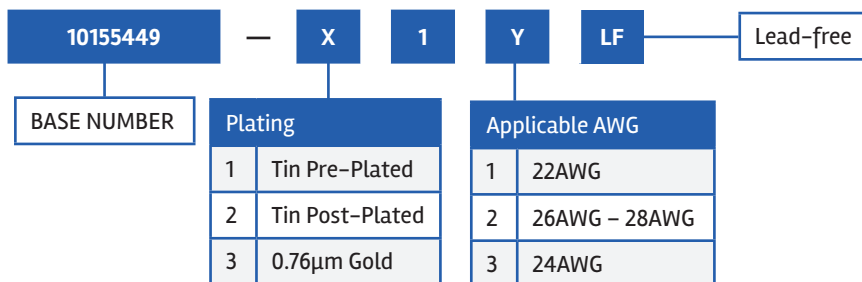
PART NUMBER SELECTOR – HEADER



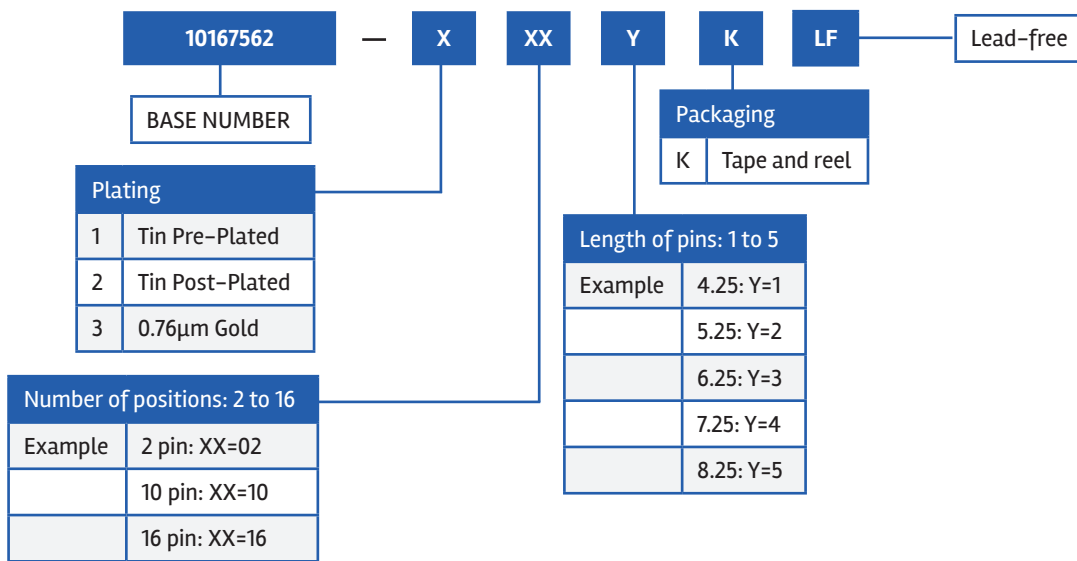
PART NUMBER SELECTOR – RECEPTACLE



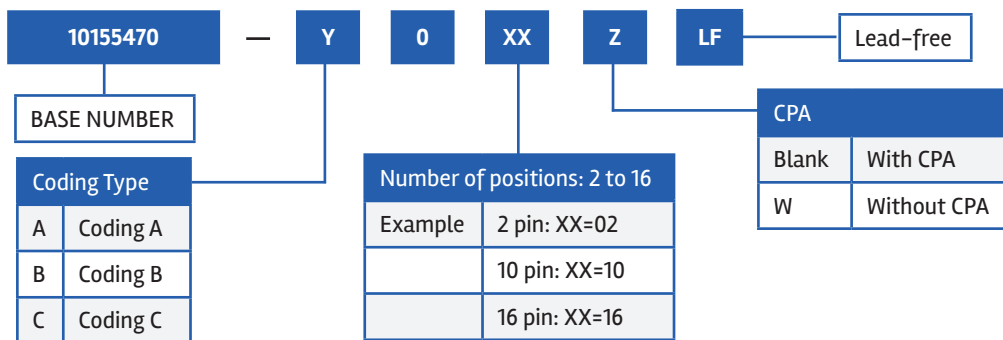
PART NUMBER SELECTOR – TERMINALS



PART NUMBER SELECTOR – PIN HEADER



PART NUMBER SELECTOR – RECEPTACLE



PART NUMBER SELECTOR – TERMINALS

