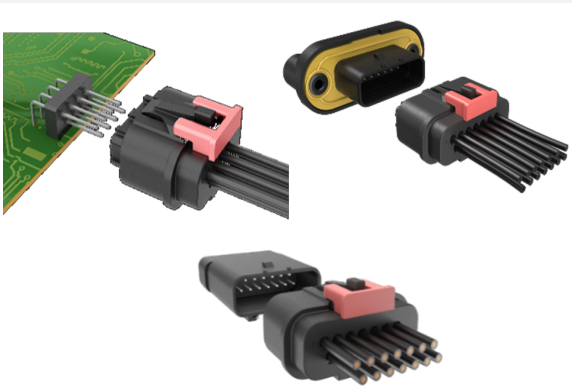
# MicroSpaceXS™ 1.27 mm Waterproof Crimp–to–Wire Connector Platform

## COMPACT, ROBUST AND VERSATILE CONNECTOR SYSTEM

MicroSpaceXS™ Waterproof connector platform's unique design meets LV214 up to Severity–3 and up to USCAR–T4V2 specifications. These 1.27 mm pitch connectors come with a current rating up to 3 A per contact, making them ideal for higher power applications. MicroSpaceXS™ waterproof connectors are available in staggered pin configuration and in Wire–to–Wire and Wire–to–Board configurations. These connectors are offered in tin or gold plating.

- LV214 up to Severity–3 and USCAR–T4V2
- Terminal Positioning Assurance (TPA)
- Primary and secondary contact retention
- Connector Positioning Assurance (CPA)



### TARGET MARKETS

| FEATURES | BENEFITS |
|---|---|
| Mechanical Connector Position Assurance (CPA) | Ensures proper mating of header and receptacle and avoids unintentional trigger of the latch |
| Terminal Position Assurance (TPA) | Ensures proper terminal insertion position and retention |
| Poka–Yoke polarization and color coding | Prevents visual mismatch |
| Current rating up to 3 A per contact | Meets higher power performance requirements |
| 4N normal force for vibration > 75 N connector locking strength | High vibration and locking resistance |

## MicroSpaceXS™ 1.27 mm Waterproof Configuration

# TECHNICAL INFORMATION

### MATERIAL

- Contact: High current Alloy with optional Tin and Gold plating
- Housing: High temperature thermoplastic, UL 94 V–0
- Platings:
  - Tin (Sn): 3 µ
  - Gold (Au): 0.76 µ

### ELECTRICAL PERFORMANCE

- Current Rating: 3 A
- Voltage Rating: 12 V–48 V
- Low Level Contact Resistance: <30 m
- Insulation Resistance: >100 m
- Dielectric Withstanding Voltage: 500 V AC
- Temperature Rise: 30 °C max.

### MECHANICAL PERFORMANCE

- Terminal Insertion Force/Terminal: <10 N
- Terminal Retention into Housing: >40 N
- 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
- UL 94 V–0

### APPROVALS AND CERTIFICATIONS

- Tin plating: LV214 Severity–2 & USCAR–T2V2
- Gold plating: LV214 Severity–3 & USCAR–T4V2
- VW75174 – Slow Motion Bending Test
- VW60330 – Crimp specification

### PACKAGING

- WTW Header: Bag or Tray
- WTB Header : Tube or Tray
- 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

Find part number details using the search box on www.amphenol–cs.com

| Description | Part Numbers |
|---|---|
| MicroSpaceXS™ Receptacle Waterproof Top latch | 10155470 |
| MicroSpaceXS™ WTW Waterproof header | 10155480 |
| MicroSpaceXS™ Pin header horizontal | 10179773 |
| MicroSpaceXS™ Terminals Receptacle / Female | 10155447 |
| MicroSpaceXS™ Terminals Header / Male | 10155449 |
| MicroSpaceXS™ WTW Terminals Header / Male Pin High Current | 10168718 |
| MicroSpaceXS™ WTB Waterproof header Panel Mount with insert | 10155498 |
| MicroSpaceXS™ WTB Waterproof header Panel Mount W/O insert | 10155496 |
| MicroSpaceXS™ WTW Waterproof header Panel Mount with insert | 10155493 |
| MicroSpaceXS™ WTW Waterproof header Panel Mount W/O insert | 10155490 |

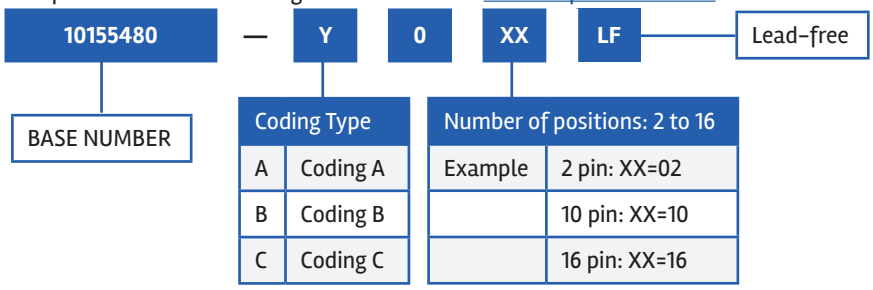
| Accessory | Part Numbers |
|---|---|
| MicroSpaceXS™ Waterproof Sealing Plug | 10155475 |
| MicroSpaceXS™ Waterproof Retainer Extraction Tool Header | 10173233 |



**Disclaimer**
Please note that the above information is subject to change without notice.

# PART NUMBER SELECTOR – HEADER

Find part number details using the search box on www.amphenol-cs.com

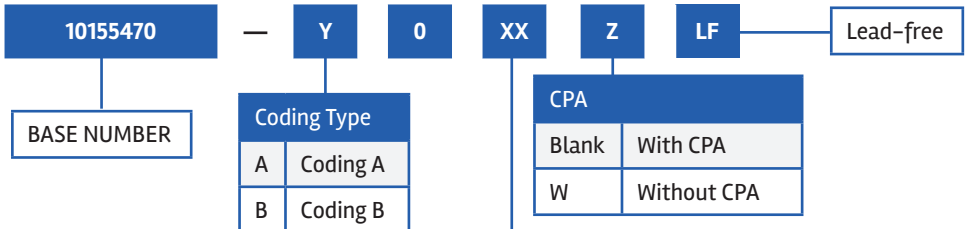



| Coding Type | |
|---|---|
| A | Coding A |
| B | Coding B |
| C | Coding C |

| Number of positions: 2 to 16 | |
|---|---|
| Example | 2 pin: XX=02 |
| | 10 pin: XX=10 |
| | 16 pin: XX=16 |

# PART NUMBER SELECTOR – RECEPTACLE

Find part number details using the search box on www.amphenol-cs.com



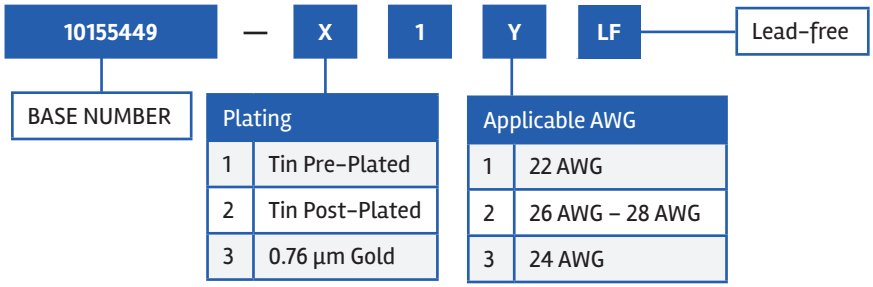

| Coding Type | |
|---|---|
| A | Coding A |
| B | Coding B |
| C | Coding C |

| CPA | |
|---|---|
| Blank | With CPA |
| W | Without CPA |

| Number of positions: 2 to 16 | |
|---|---|
| Example | 2 pin: XX=02 |
| | 10 pin: XX=10 |
| | 16 pin: XX=16 |

# PART NUMBER SELECTOR – TERMINALS

Find part number details using the search box on www.amphenol-cs.com




| Plating | |
|---|---|
| 1 | Tin Pre-Plated |
| 2 | Tin Post-Plated |
| 3 | 0.76 µm Gold |

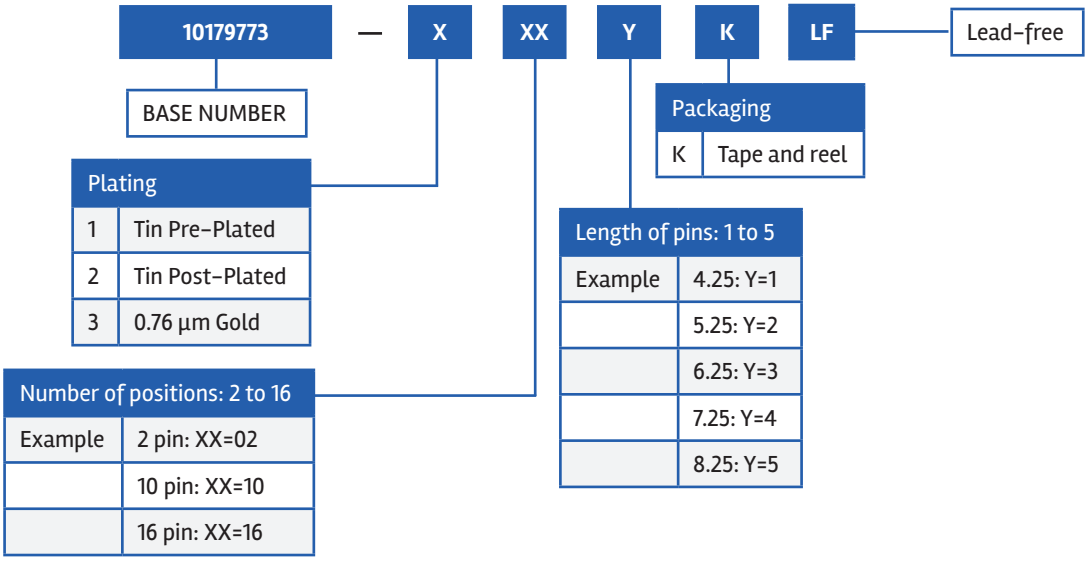
| Applicable AWG | |
|---|---|
| 1 | 22 AWG |
| 2 | 26 AWG – 28 AWG |
| 3 | 24 AWG |



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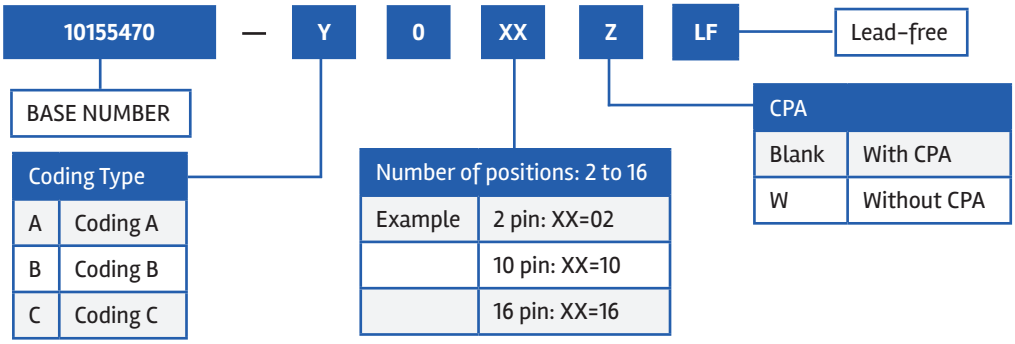
# PART NUMBER SELECTOR – PIN HEADER

Find part number details using the search box on www.amphenol-cs.com



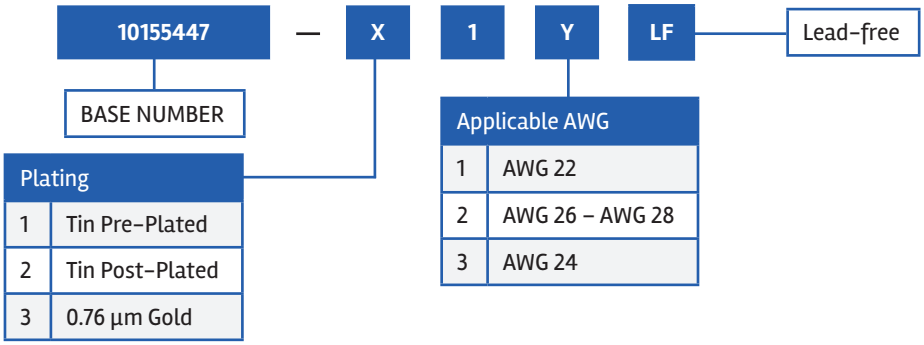

# PART NUMBER SELECTOR – RECEPTACLE

Find part number details using the search box on www.amphenol-cs.com




# PART NUMBER SELECTOR – TERMINALS

Find part number details using the search box on www.amphenol-cs.com






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# MicroSpaceXS™ 1.27 mm Wire-to-Board Waterproof Configuration

## PART NUMBER SELECTOR – HEADER

Find part number details using the search box on www.amphenol-cs.com

**10155498 — Y X XX Z LF** — Lead-free

BASE NUMBER

| Coding Type | |
|---|---|
| A | Coding A |
| B | Coding B |
| C | Coding C |

| Plating | |
|---|---|
| 1 | Tin Pre-Plated |
| 2 | Tin Post-Plated |
| 3 | 0.76 µm Gold |

| Packaging | |
|---|---|
| U | Tube |
| T | Tray |

| Number of positions: 2 to 16 | |
|---|---|
| Example | 2 pin: XX=02 |
| | 10 pin: XX=10 |
| | 16 pin: XX=16 |

## PART NUMBER SELECTOR – RECEPTACLE

Find part number details using the search box on www.amphenol-cs.com

**10155470 — Y 0 XX Z LF** — Lead-free

BASE NUMBER

| Coding Type | |
|---|---|
| A | Coding A |
| B | Coding B |
| C | Coding C |

| Number of positions: 2 to 16 | |
|---|---|
| Example | 2 pin: XX=02 |
| | 10 pin: XX=10 |
| | 16 pin: XX=16 |

| CPA | |
|---|---|
| Blank | With CPA |
| W | Without CPA |

## PART NUMBER SELECTOR – TERMINALS

Find part number details using the search box on www.amphenol-cs.com

**10155447 — X 1 Y LF** — Lead-free

BASE NUMBER

| Plating | |
|---|---|
| 1 | Tin Pre-Plated |
| 2 | Tin Post-Plated |
| 3 | 0.76 µm Gold |

| Applicable AWG | |
|---|---|
| 1 | AWG 22 |
| 2 | AWG 26 – AWG 28 |
| 3 | AWG 24 |

**EXPLORE THE PRODUCT DETAILS ONLINE**
Scan Now

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