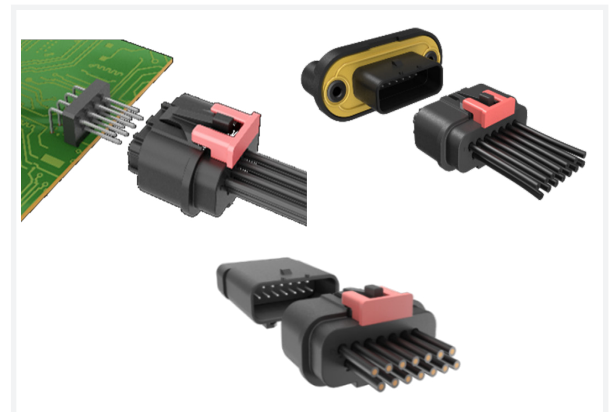


## MicroSpaceXS™ 1.27 mm Waterproof Crimp-to-Wire Connector Platform

### 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

- Mechanical Connector Position Assurance (CPA)
- Terminal Position Assurance (TPA)
- Poka-Yoke polarization and color coding
- Current rating up to 3 A per contact
- 4N normal force for vibration > 75 N 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

## 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

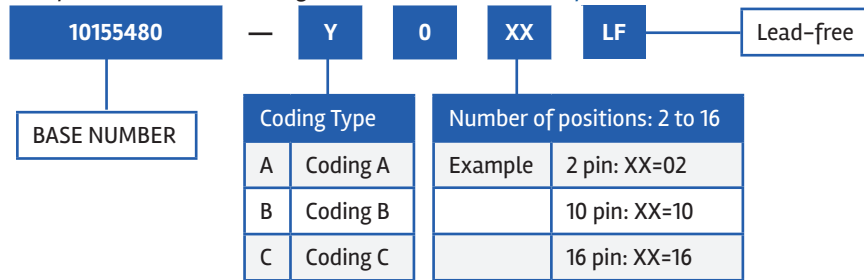
### PART NUMBERS

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

Description	Part Numbers	Accessory	Part Numbers
MicroSpaceXS™ Receptacle Waterproof Top latch	10155470	MicroSpaceXS™ Waterproof Sealing Plug	10155475
MicroSpaceXS™ WTW Waterproof header	10155480	MicroSpaceXS™ Waterproof Retainer Extraction Tool Header	10173233
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		

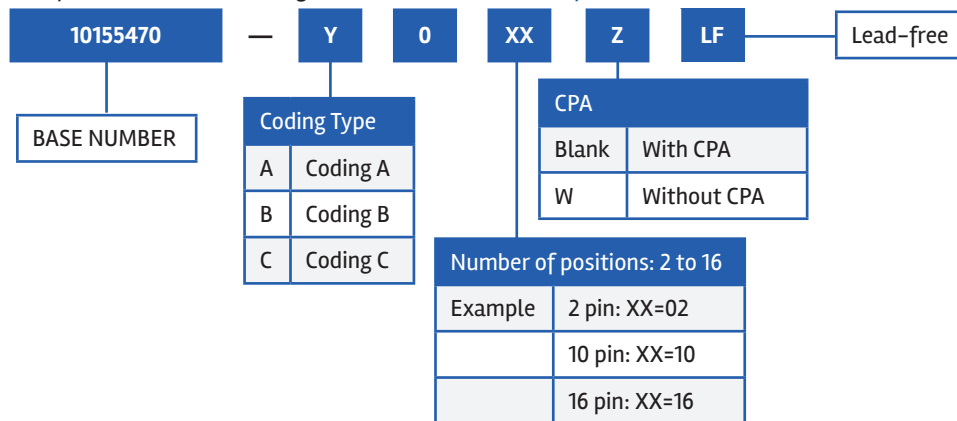
## PART NUMBER SELECTOR – HEADER

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)



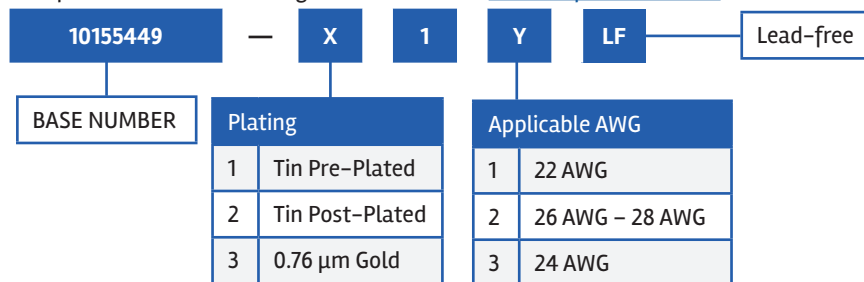
## PART NUMBER SELECTOR – RECEPTACLE

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

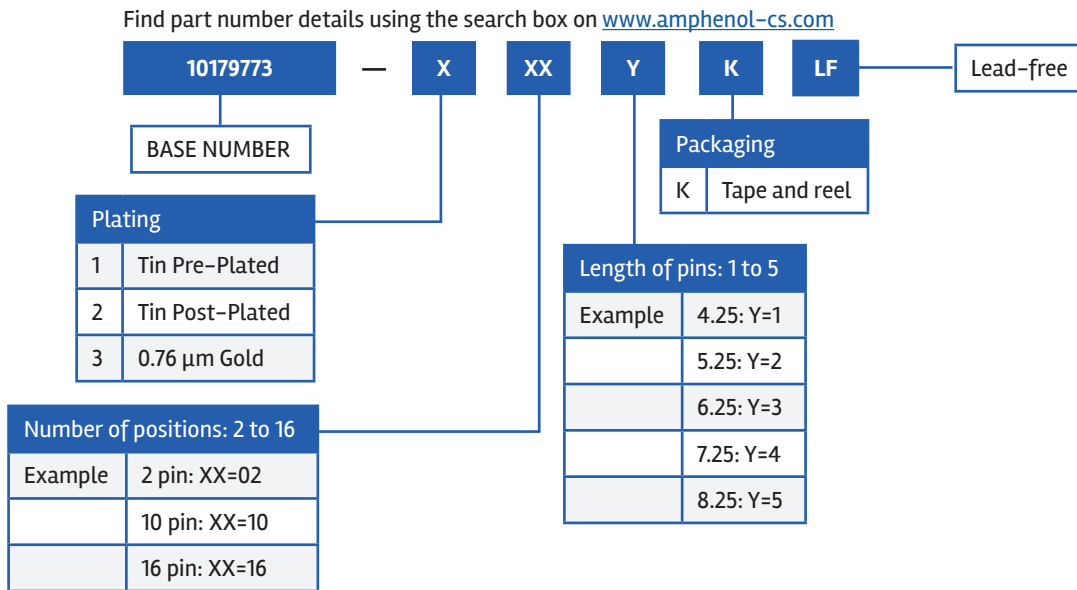


## PART NUMBER SELECTOR – TERMINALS

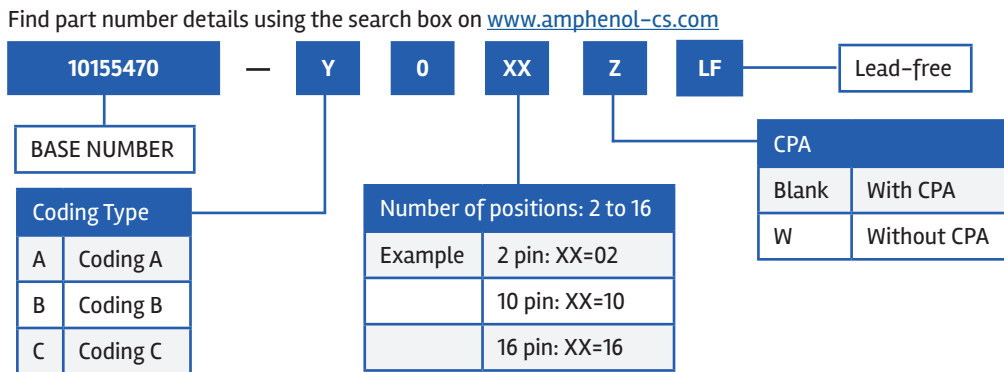
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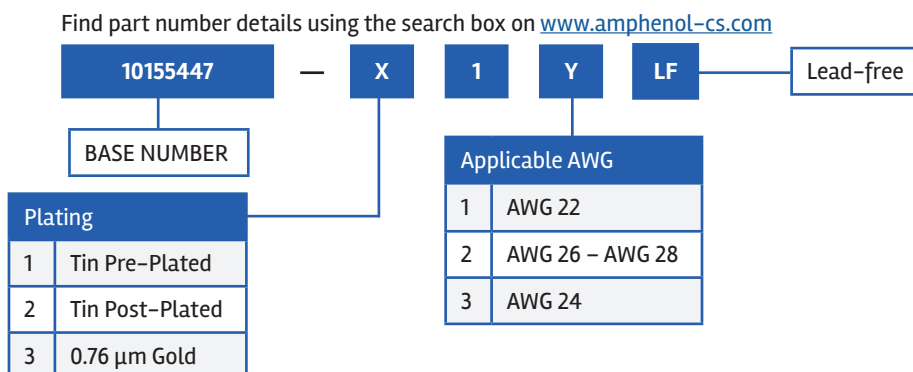
## PART NUMBER SELECTOR – PIN HEADER



## PART NUMBER SELECTOR – RECEPTACLE

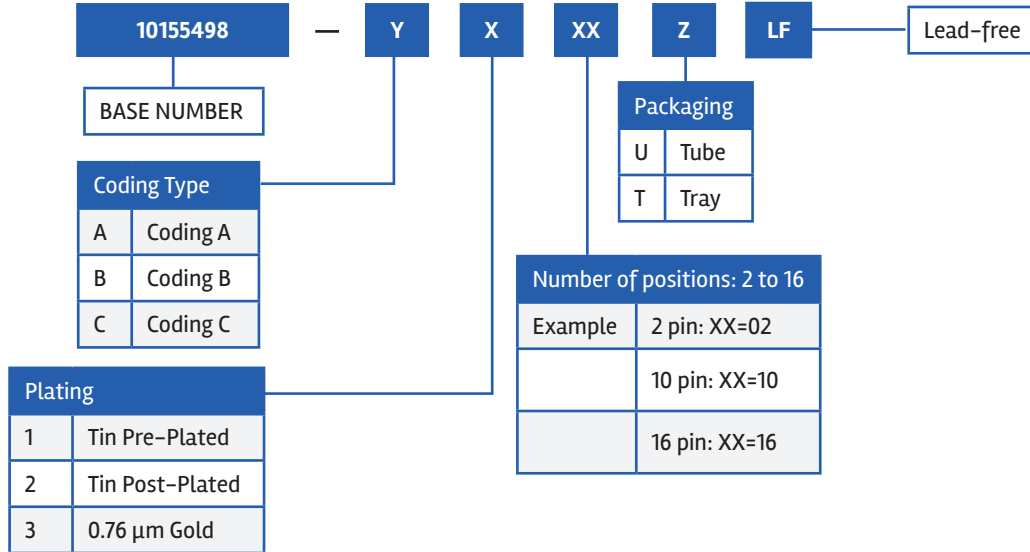


## PART NUMBER SELECTOR – TERMINALS



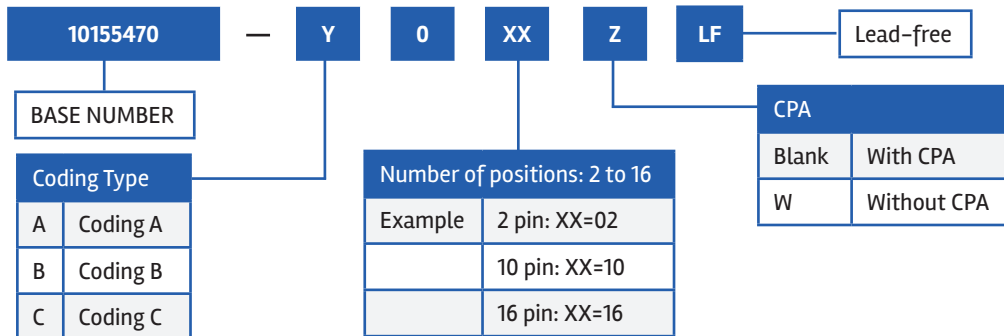
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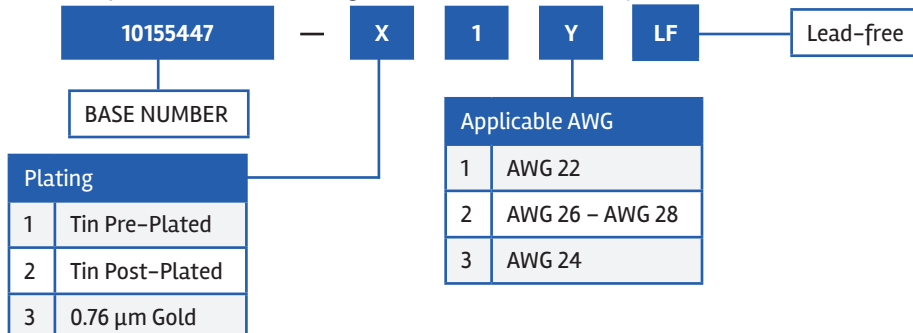
## PART NUMBER SELECTOR – RECEPTACLE

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## PART NUMBER SELECTOR – TERMINALS

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)



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