

MicroSpace™ Crimp-To-Wire Connector Platform

COMPACT, ROBUST AND VERSATILE CONNECTORS SYSTEM

MicroSpace™ Crimp-to-Wire connector platform's unique design enables LV214 Severity-2 and performs at 1.27 mm, 1.5 mm, and 1.8 mm pitch. MicroSpace™ will be available in single and double row versions, with a top and side latch configuration.

- LV214 Severity-2 Compatible
- Keying to prevent visual mismatching
- Terminal Positioning Assurance (TPA)
- Primary and secondary contact retention
- Connector Positioning Assurance (CPA)



TARGET MARKETS



FEATURES

- Design based on existing and proven design controls
- Existing crimp section and automated crimp tooling up to 22 AWG
- 4 N normal force for vibration and >60 N connector locking strength
- Poka-yoke polarization
- Terminal Positioning Assurance (TPA)
- Current rating up to 4A per contact
- Connector Positioning Assurance (CPA)
- Low insertion force terminal available

BENEFITS

- Suitable for harsh environments
- No specific industrial tools required
- High vibration and locking resistance
- Visual mismatching prevention system
- Ensures proper terminal insertion position and retention
- Meets higher power performance requirements
- Assures that connectors are properly mated and locked together
- Makes it easier to mate with receptacle

TECHNICAL INFORMATION

MATERIAL

- Contact for Board Header Connector: High Current Alloy with optional Tin and Gold plating
- Housing: High Temperature Thermoplastic, UL 94 V-0
- Crimping Terminal: High Current Alloy with optional Tin and Gold plating

MECHANICAL PERFORMANCE

- Terminal Insertion Force/Terminal: <3 N
- Terminal Retention into Housing: >50 N
- Durability: 20 mating cycles for Sn; 100 mating cycles for Au
- Wire Pullout Force for 0.35 mm²: ≥ 50 N (min.)

APPROVALS AND CERTIFICATIONS

- Up to LV214 – Severity 2 Compatible

PACKAGING

- PCB Header: Tape & Reel
- Receptacle Housing: Bag
- Terminal: Reel

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: <30 mΩ
- Insulation Resistance: >100 MΩ
- Voltage Rating: 12 V – 48 V
- Current Rating:
 - 1.27mm pitch Staggered: 4 A
 - 1.27 mm pitch Side To Side: 2 A
 - 1.5mm pitch: 3 A
 - 1.8mm pitch: 4 A
- Dielectric Withstanding Voltage: 500 VAC
- Temperature Rise: 30 °C max.

ENVIRONMENTAL

- Operating Temperature Range: –40 °C to +130 °C

TARGET MARKETS/APPLICATIONS



Camera/Sensor
Cluster/Navigation
HVAC
Headliner
Lighting
Power Steering
Radio/DVD

PART NUMBERS

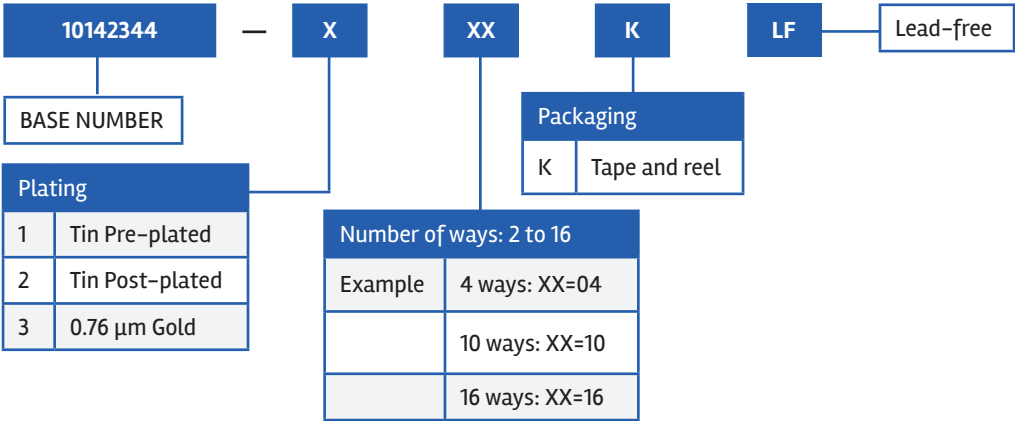
Find part number details using the search box on www.amphenol-cs.com

Description			Configuration			
Pitch	Versions	No. of Ways	Header Assembly (Horizontal)	Header Assembly (Vertical)	Receptacle Assembly	Crimp-to-Wire Receptacle
1.27 mm	Staggered	2–3	10142396*	10142407*	10142395*	10141272 / 10148496*
		4–16	10142344*	10143535*	10142348*	10141272 / 10148496*
1.5 mm	Single Row	2	10159808*	10159449*	10156818*	10141272 / 10148496*
1.8 mm	Single Row	4	10142963*		10142961*	10141272 / 10148496*

*denotes base part number. Please contact Amphenol for complete part numbers and for other available configurations

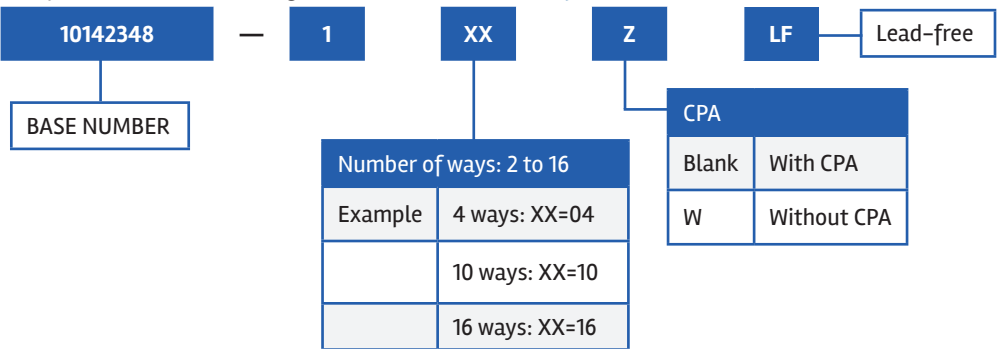
PART NUMBER SELECTOR – HEADER

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



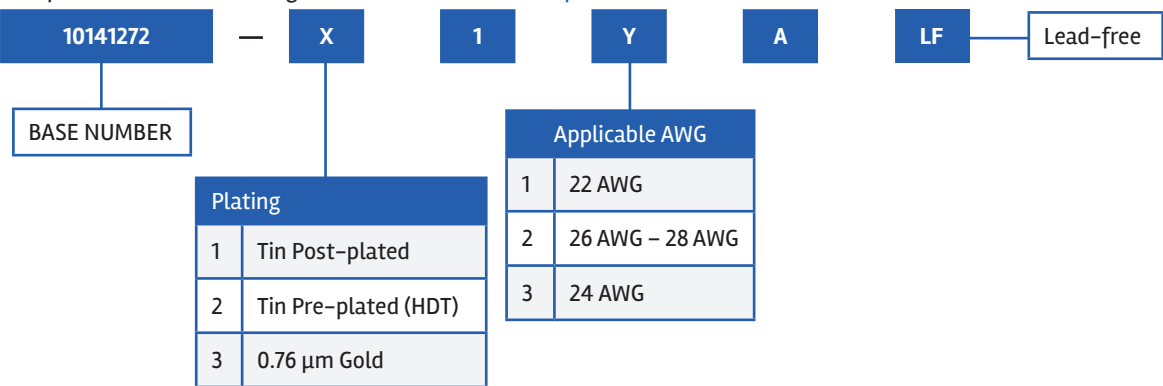
PART NUMBER SELECTOR – RECEPTACLE

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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