

BergStik® Headers Straight Unshrouded

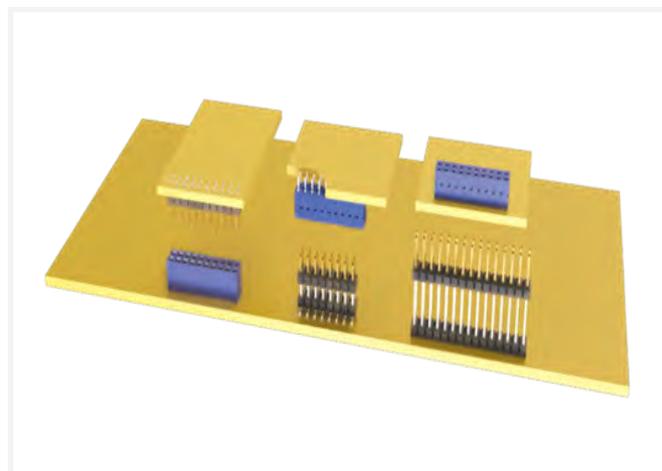
2.54MM PITCH

VERSATILE HEADERS WITH BREAKAWAY DESIGN

BergStik® Amphenol FCI 2.54mm unshrouded headers are offered in surface-mount (SMT), through-hole (THT), press-fit (PF) and pin-in-paste (PIP) versions. Available in single and double row from 2 to 72 positions.

These “breakaway headers” can be cut or broken into specific lengths to suit the application profile with a maximum current rating of 3A per contact. The drawn-wire pins offer an economical solution for various applications with durability up to 100 mating.

- Same PCB layout for Through-Hole and PF versions
- Multiple termination options: SMT, THT, PF, PIP
- Fully compatible with Dubox® receptacles



TARGET MARKETS



FEATURES

- High temperature thermoplastic material
- Customizable height
- Blank 0.64mm square contacts present 4 surfaces of equal quality
- Standoff design
- Duplex plating
- Tin-lead plating in press-fit area
- Press-fit designed to fit 1.02mm diameter hole, solder-to-board products
- Meets DIN 41651 specification, HE 13, and BT D2632

BENEFITS

- Re-flow compatible
- Cater to a wide range of applications
- Suitable for mezzanine application and gives more flexibility in meeting different stack height requirements
- Can be used for wire wrapping
- Allows cleaning to remove soldering contamination
- Cost efficient
- Easy pin insertion onto PCB
- High retention force onto PCB
- Same layout on THT and press-fit
- Qualified product

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor bronze
- Plating: Gold / GXT® or Tin over 1.27µm (50µin) nickel

MECHANICAL PERFORMANCE

- Pin Retention Force to Housing: 9N min.

ELECTRICAL PERFORMANCE

- Current Rating:
 - 3A continuous
 - 2A DC max. per contact for fully energized connector
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500Vrms min.

ENVIRONMENTAL

- Operating Temperature Range: -65°C to +125°C

SPECIFICATIONS

- Product Specification: BUS-12-050 / BUS-12-144 (duplex plated) / BUS-12-117 (press-fit)

APPROVALS & CERTIFICATION

- UL Approval: E66906

PACKAGING

- Polybags
- Endless reels
- Optional: Tubes or tape-and-reel with pick-up cap (if available)

TOOLING INFORMATION

- Insertion tool: 30AWG to 20AWG

TARGET MARKETS/APPLICATIONS



Personal Care Devices (Air Dryer)
Home Care Devices (Cleaning Robot)
Home Automation (Alarm System)



Server
Storage

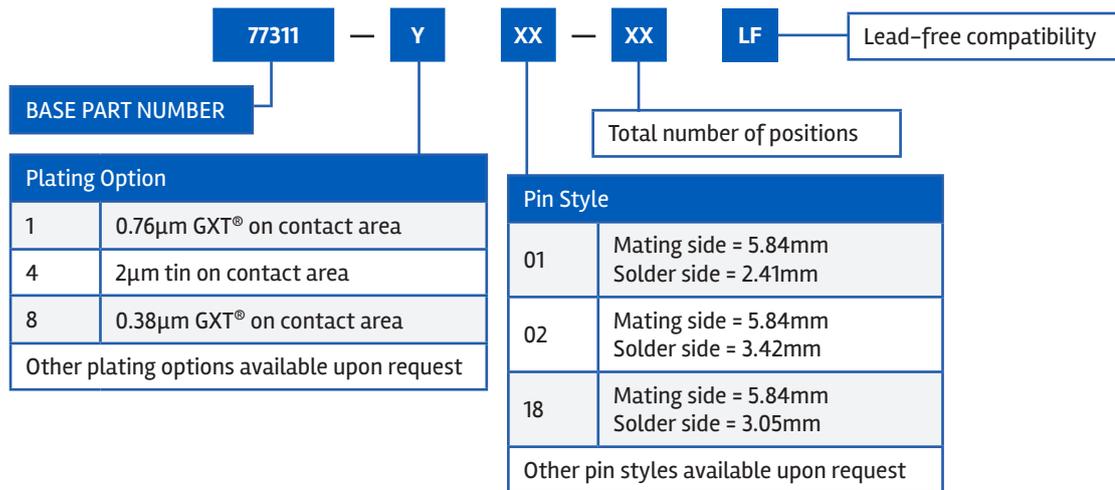


Industrials (Robotics, PLC, Power tool)

PART NUMBERS

Description	Part Numbers
Unshrouded Header, Straight, Single Row, TMT	77311
Unshrouded Header, Straight, Single Row, SMT	95293
Unshrouded Header, Straight, Single Row, Press-Fit	93689
Unshrouded Header, Straight, Double Row, TMT	77313
Unshrouded Header, Straight, Double Row, SMT	95278
Unshrouded Header, Straight, Double Row, Press-Fit	93690

PART NUMBER SELECTOR – STRAIGHT UNSHROUDED HEADERS



Description	Part Numbers
Unshrouded Header, Straight, Single Row, TMT	77311
Unshrouded Header, Straight, Single Row, SMT	95293
Unshrouded Header, Straight, Single Row, Press-Fit	93689
Unshrouded Header, Straight, Double Row, TMT	77313
Unshrouded Header, Straight, Double Row, SMT	95278
Unshrouded Header, Straight, Double Row, Press-Fit	93690

BergStik® Headers Stacking Unshrouded

2.54MM PITCH

CUSTOMIZABLE STACKING HEADERS WITH BREAKAWAY DESIGN

BergStik® Amphenol FCI 2.54mm stacking unshrouded headers are offered in surface-mount (SMT), through-hole (THT), press-fit (PF) and pin-in-paste (PIP) versions. Available in single and double row from 2 to 72 positions.

These “breakaway headers” can be cut or broken into specific lengths to suit the application profile with a maximum current rating of 3A per contact. The drawn-wire pins offer an economical solution for various applications with durability up to 100 mating.

- Duplex, triplex or full plating
- Height up to 55.00mm (duplex plating) and 65.00mm (triplex)
- Multiple termination options: SMT, THT, PF, PIP
- Fully compatible with Dubox® receptacles

FEATURES

- High temperature thermoplastic material
- Customizable height
- Blank 0.64mm square contacts present four surfaces of equal quality
- Standoff design
- Duplex plating
- Tin-lead plating in press-fit area
- Press-fit designed to fit 1.02mm diameter hole, solder-to-board products
- Meets DIN 41651 specification, HE 13, and BT D2632



TARGET MARKETS



BENEFITS

- Re-flow compatible
- Cater to a wide range of applications
- Suitable for mezzanine application and gives more flexibility in meeting different stack height requirements
- Can be used for wire wrapping
- Allows cleaning to remove soldering contamination
- Cost efficient
- Easy pin insertion onto PCB
- High retention force onto PCB
- Same layout on THT and Press-fit
- Qualified product

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor bronze
- Plating: Gold / GXT® or Tin over 1.27µm (50µin) nickel

MECHANICAL PERFORMANCE

- Pin Retention Force to Housing: 9N min.

ELECTRICAL PERFORMANCE

- Current Rating:
 - 3A continuous
 - 2A DC max. per contact for fully energized connector
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500Vrms min.

ENVIRONMENTAL

- Operating Temperature Range: -65°C to +125°C

SPECIFICATIONS

- Product Specification: BUS-12-050 / BUS-12-144 (duplex plated) / BUS-12-117 (press-fit)

APPROVALS & CERTIFICATION

- UL Approval: E66906

PACKAGING

- Polybags
- Optional: Tubes or tape-and-reel with pick-up cap (if available)

TARGET MARKETS/APPLICATIONS



Personal Care Devices (Air Dryer)
Home Care Devices (Cleaning Robot)
Home Automation (Alarm System)



Server
Storage

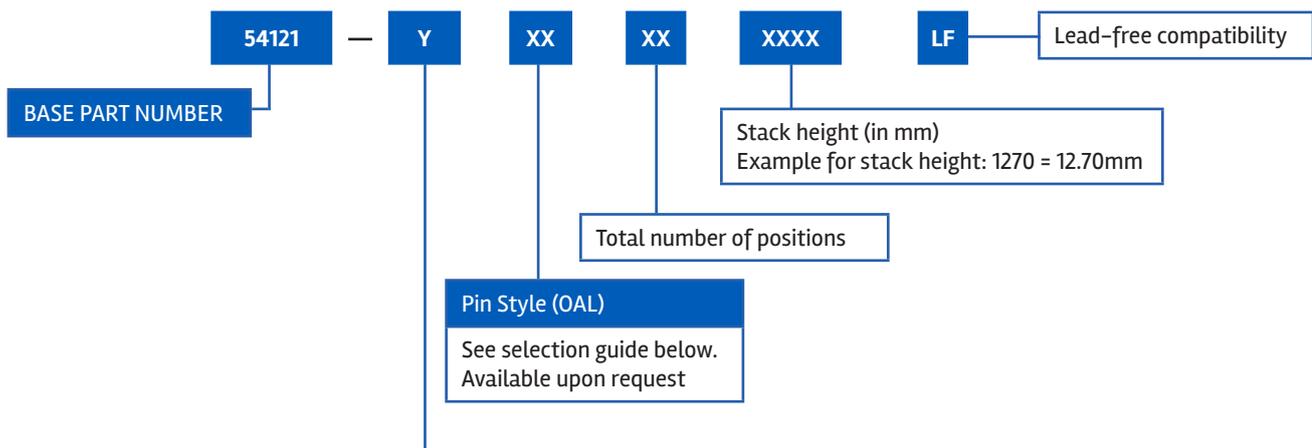


Industrials (Robotics, PLC, Power tool)

PART NUMBERS

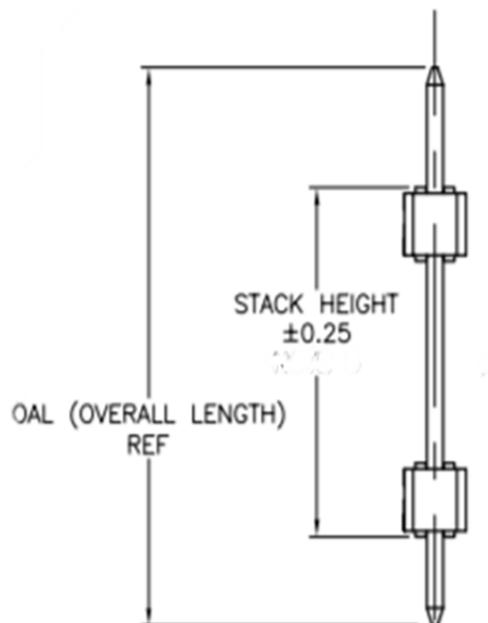
Description	Part Numbers
Unshrouded Stacking Header, Vertical, Single Row, TMT	54121
Unshrouded Stacking Header, Vertical, Single Row, Press-Fit	10124323
Unshrouded Stacking Header, Vertical, Double Row, TMT	54122
Unshrouded Stacking Header, Vertical, Double Row, SMT	54242
Unshrouded Stacking Header, Vertical, Double Row, Press-Fit	10112620

PART NUMBER SELECTOR – STACKING UNSHROUDED HEADERS

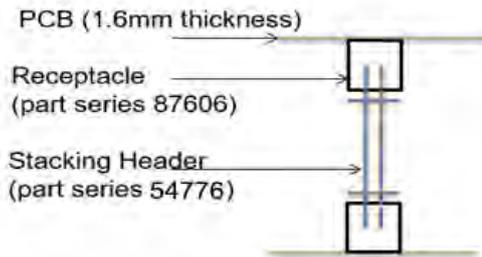


Plating Option		Description	Part Numbers
1	0.76µm GXT® on contact area	Unshrouded Stacking Header, Vertical, Single Row, TMT	54121
4	2µm tin on contact area	Unshrouded Stacking Header, Vertical, Single Row, Press-Fit	10124323
8	0.38µm GXT® on contact area	Unshrouded Stacking Header, Vertical, Double Row, TMT	54122
Other plating options available upon request		Unshrouded Stacking Header, Vertical, Double Row, SMT	54242
		Unshrouded Stacking Header, Vertical, Double Row, Press-Fit	10112620

PART OVERVIEW



STANDARD CONFIGURATION A

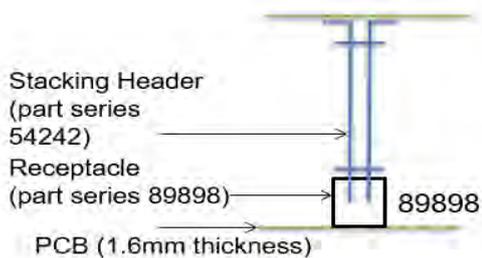


OAL = Distance between the two PCB – 7,4mm

Example with PCB distance of 25mm :

$$OAL = 25mm - 7,4mm = 17,6mm$$

STANDARD CONFIGURATION B

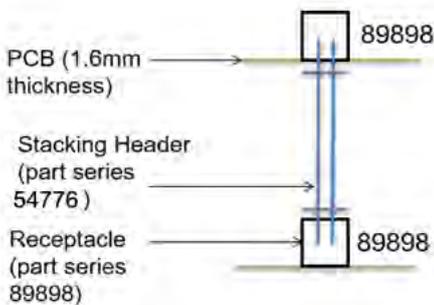


OAL = Distance between the two PCB – 2,4mm

Example with PCB distance of 25mm :

$$OAL = 25mm - 2,4mm = 22,6mm$$

STANDARD CONFIGURATION C

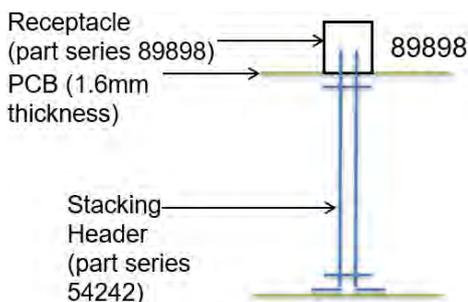


OAL = Distance between the two PCB – 2,4mm + PCB thickness + 7,1mm

Example with PCB distance of 25mm :

$$OAL = 25mm - 2,4mm + 1,6mm + 7,1mm = 31,3mm$$

STANDARD CONFIGURATION D



OAL = Distance between the two PCB + PCB thickness + 6,8mm

Example with PCB distance of 25mm :

$$OAL = 25mm + 1,6mm + 6,8mm = 33,4mm$$

BergStik® Headers Right-Angle Unshrouded

2.54MM PITCH

VERSATILE HEADERS WITH BREAKAWAY DESIGN

BergStik® Amphenol FCI 2.54mm unshrouded headers are offered in surface-mount (SMT), through-hole (THT) and pin-in-paste (PIP) versions. Available in single and double row from 2 to 72 positions.

These “breakaway headers” can be cut or broken into specific lengths to suit the application profile with a maximum current rating of 3A per contact. The drawn-wire pins offer an economical solution for various applications with durability up to 100 mating.

- Same PCB layout for Through-Hole and PF versions
- Multiple termination options: SMT, THT, PIP
- Fully compatible with Dubox® PCB receptacles



FEATURES

- High temperature thermoplastic material
- Customizable height
- Blank 0.64mm square contacts present four surfaces of equal quality
- Standoff design
- Duplex plating
- Tin-lead plating in press-fit area
- Press-fit designed to fit 1.02mm diameter hole, solder-to-board products
- Meets DIN 41651 specification, HE 13, and BT D2632

BENEFITS

- Re-flow compatible
- Cater to a wide range of applications
- Suitable for mezzanine application and gives more flexibility in meeting different stack height requirements
- Can be used for wire wrapping
- Allows cleaning to remove soldering contamination
- Cost efficient
- Easy pin insertion onto PCB
- High retention force onto PCB
- Same layout on THT and Press-fit
- Qualified product

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor bronze
- Plating: Gold / GXT® or tin over 1.27µm (50µin) nickel

MECHANICAL PERFORMANCE

- Pin Retention Force to Housing: 9N min.

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous 2A DC max. per contact for fully energized connector
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500Vrms min.

ENVIRONMENTAL

- Operating Temperature Range: -65°C to +125°C

SPECIFICATIONS

- Product Specification: BUS-12-050 / BUS-12-144 (duplex plated) / BUS-12-117 (press-fit)

APPROVALS & CERTIFICATION

- UL Approval: LR46923

PACKAGING

- Polybags
- Optional: Tubes or tape-and-reel with pick-up cap

TOOLING INFORMATION

- Insertion tool: 30AWG to 20AWG

TARGET MARKETS/APPLICATIONS



Personal Care Devices (Air Dryer)
Home Care Devices (Cleaning Robot)
Home Automation (Alarm System)



Server
Storage

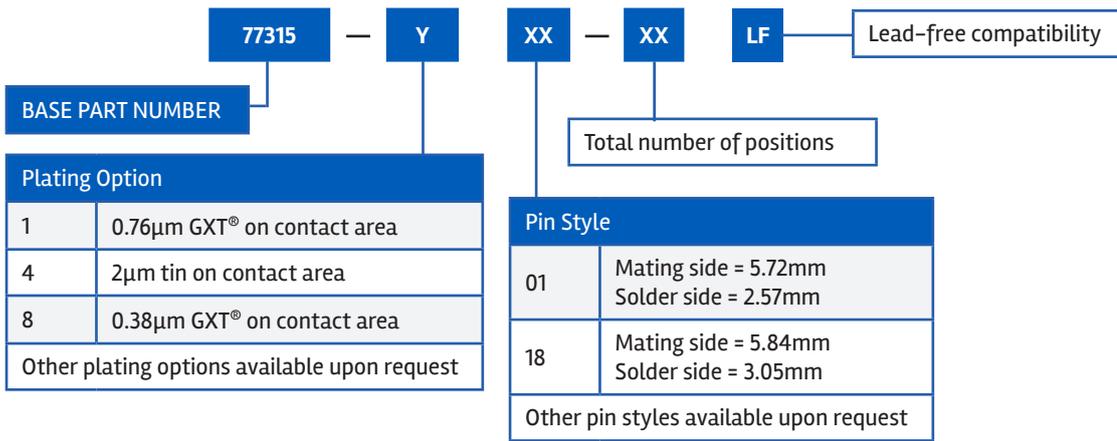


Industrials (Robotics, PLC, Power tool)

PART NUMBERS

Description	Part Numbers
Unshrouded Header, Horizontal, Single Row, TMT/PIP	77315
Unshrouded Header, Horizontal, Single Row, SMT	10119333
Unshrouded Header, Horizontal, Double Row, TMT/PIP	77317
Unshrouded Header, Horizontal, Double Row, SMT	10118084

PART NUMBER SELECTOR – RIGHT-ANGLE UNSHROUDED HEADERS



Description	Part Numbers
Unshrouded Header, Horizontal, Single Row, TMT/PIP	77315
Unshrouded Header, Horizontal, Single Row, SMT	10119333
Unshrouded Header, Horizontal, Double Row, TMT/PIP	77317
Unshrouded Header, Horizontal, Double Row, SMT	10118084