

SHORT LEAD TIMES SHORT LEAD TIMES www.fci.com/basicsleadtimes



Product Catalog



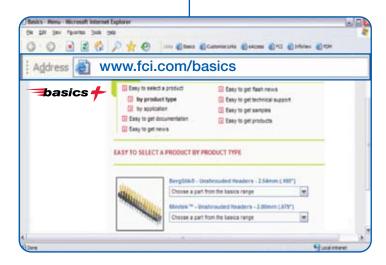
FCI: SETTING THE STANDARD FOR CONNECTORS

With operations in 30 countries and sales of 1.3 billion euros in 2007, FCI is a leading manufacturer of connectors. Our 14,200 employees are committed to providing customers with high-quality, innovative products for a wide range of consumer and industrial applications.



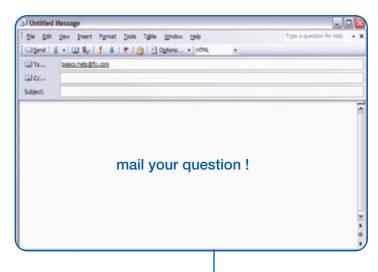


SELECT YOUR STANDARD PART FROM THIS
CATALOG OR THE BASICS+ MICROSITE





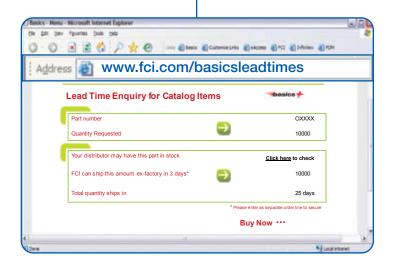
ORDER YOUR FAST SHIPMENT SAMPLES ONLINE



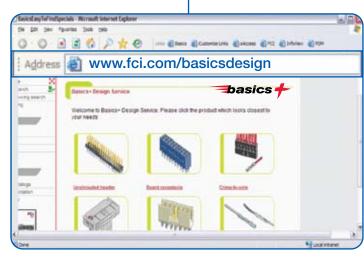
GET THE TECHNICAL HELP YOU NEED FROM BASICS.HELP@FCI.COM

RE SERVICE. LESS WAITING.

CATALOG PARTS NORMALLY AVAILABLE
FOR SHIPMENT IN 3 DAYS. CHECK ONLINE!



OR GET THE SPECIAL YOU NEED VIA THE BASICS+ DESIGN SERVICE





NEED SOME PRODUCTION GRADE PARTS FOR YOUR PRE-SERIES?
PHONE OUR CUSTOMER SERVICE

■ UNSHROUDED HEADERS					
	BergStik® Unshrouded Headers 2.54mm (.100")				
	Vertical - standard sizes	8			
	Vertical - custom sizes	10			
1660.	Vertical - continuous	12			
Add Black to a	Right angle - standard sizes Right angle - custom sizes	14 16			
阿尔格拉拉拉 拉拉 1.1	Stacking headers	18			
17 子子中的最级独立	Minitek™ Unshrouded Headers 2.00mm (.079")	10			
	Vertical	52			
	Right angle	54			
	Pin-in-Paste	56			
	Stacking	58			
SHROUDED H					
	Dubox™ Shrouded Headers 2.54mm (.100)	30			
	PV™ Superior Performance Shrouded Headers 2.54mm (.100")	36			
	Minitek™ Shrouded Headers 2.00mm (.079")	0.4			
COOCCU	Vertical Pinkt on ale	64			
111111111111111111111111111111111111111	Right angle Pin-in-Paste	66 68			
	Eject latch	70			
	Quickie® Shrouded Headers 2.54mm (.100")	10			
	Low Profile	42			
	Surface Mount and Pin-in-Paste	44			
	Eject latch	46			
■ BOARD-TO-E	BOARD RECEPTACLES				
	Dubox™ Board-to-Board Receptacles 2.54mm (.100")				
A STATE OF THE PARTY OF THE PAR	Vertical	22			
The same of the sa	Low profile vertical - through mount	24			
	Low profile vertical - surface mount	26			
	Horizontal Ministration Variation Incorporate Least	28			
	Horizontal Minitek™ Vertical receptacles	28 60			
> CPIMP TO M	Minitek™ Vertical receptacles				
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS				
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100")	60			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts	60			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings	60			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts	60			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings	32 34			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079")	32 34 38 40			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts	32 34 38 40 72			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings	32 34 38 40 72 72			
A STATE OF THE STA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch	32 34 38 40 72			
▶ CRIMP-TO-W	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch	32 34 38 40 72 72 74			
A STATE OF THE STA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100")	32 34 38 40 72 72 74			
A STATE OF THE STA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100")	32 34 38 40 72 72 74 48 50			
A STATE OF THE STA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100")	32 34 38 40 72 72 74			
A STATE OF THE STA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100")	32 34 38 40 72 72 74 48 50			
IDC RECEPTA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100")	32 34 38 40 72 72 74 48 50			
A STATE OF THE STA	Minitek™ Vertical receptacles // IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch // CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles //IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch //CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles // IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch // CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles //IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch //CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles //IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch //CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles //IRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch //CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100") Minitek™ Shunts 2.54mm (.100") Minitek™ Shunts 2.54mm (.100")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA SHUNTS	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100") Minitek™ Shunts 2.00mm (.079")	32 34 38 40 72 72 74 48 50 76			
IDC RECEPTA SHUNTS MORE OPTION	Minitek™ Vertical receptacles VIRE TERMINALS AND HOUSINGS Dubox™ Crimp-To-Wire 2.54mm (.100") Contacts Housings PV™ Superior Performance Crimp-To-Wire 2.54mm (.100") Contacts Housings Minitek™ Crimp-To-Wire 2.00mm (.079") Contacts Housings Active latch CLES Quickie® IDC Receptacles 2.54mm (.100") Quickie® IDC PCB connector 2.54mm (.100") Minitek™ IDC strain relief Dubox™ Shunts 2.54mm (.100") Minitek™ Shunts 2.00mm (.079")	32 34 38 40 72 72 74 48 50 76			

www.fci.com/basics

WHAT'S NEW?

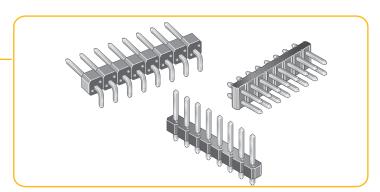




Pick an item from anywhere in the catalog. Most parts available to ship from our factory to you in 3 days.
Check online at www.fci.com/basics leadtimes

▶ Pin-in-Paste

Our new PiP range has been specifically designed to meet the requirements of this process, complete with paste stencil design Pages 56, 68



Minitek Active Latch

A latching crimp-to-wire system for demanding environments Pages 64, 74



Minitek Eject Latch Header

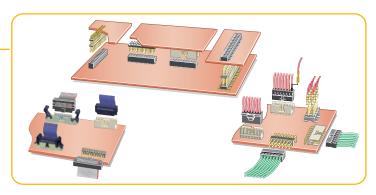
This ribbon cable connector mates securely, but can be unmated with no difficulty.

Pages 70, 76

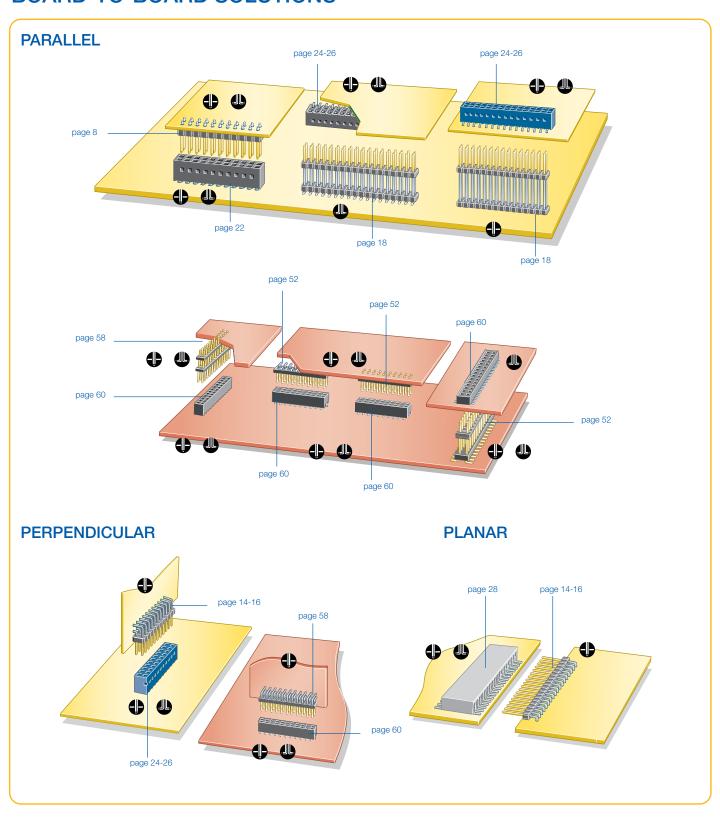


▶ The Minitek 2mm Modular System

Now the most complete and versatile system available: intermateable, high temperature compatible, low coplanarity and space saving Pages 52 – 76



BOARD-TO-BOARD SOLUTIONS



= 2.54 mm



= Through Mount

= 2.00 mm

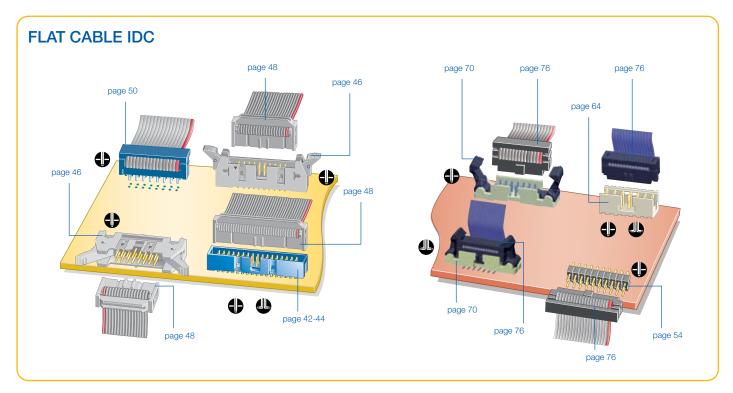


= Surface Mount

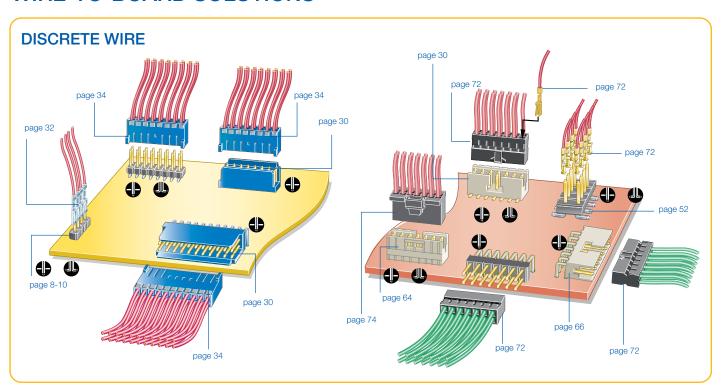


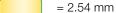


CABLE-TO-BOARD SOLUTIONS



WIRE-TO-BOARD SOLUTIONS





= 2.54 mm

= 2.00 mm

= Through Mount



= Surface Mount

TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1500 V

MECHANICAL PERFORMANCE

Pin retention to housing: 9 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

- Standard: Bags
- Optional: Tubes or

Tape-and-reel with pick-up cap

(SMT pin style 01 only)

REFERENCE INFORMATION

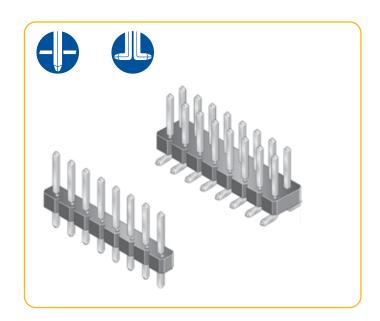
- File no. E66906
- File no. LR46923
- ► Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-114
- Tape and Reel packaging data: TA-840

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and (for SMT) IR reflow soldering processes
- Recommended IR profile TA 842 for SMT

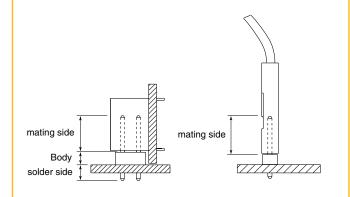
RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

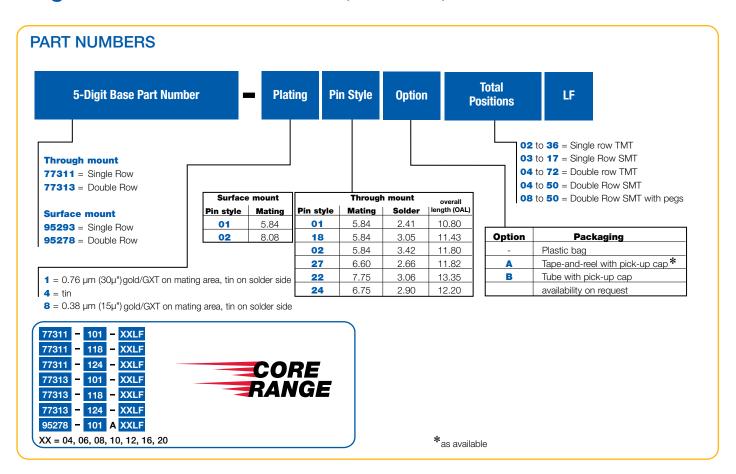
- Dubox[™] Crimp-to-wire contacts
 Dubox[™] Crimp-to-wire housings
 34
- Dubox[™] Vertical receptacles
 22
- Dubox[™] Low profile vertical receptacles 24, 26
- Dubox™ Horizontal receptacles 28
- Quickie™ IDC receptacles 48
- ► PVTM Crimp-to-Wire Contacts 38
- ► PV[™] Crimp-to-Wire Housings 40

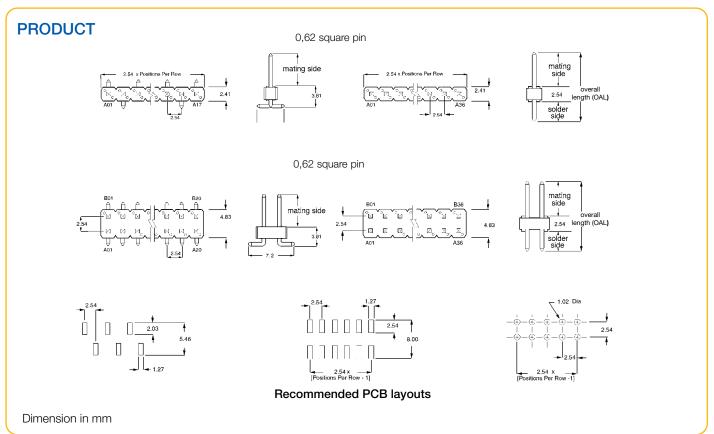






BergStik® Unshrouded Header, Vertical, Standard Sizes





TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1500 V
- MECHANICAL PERFORMANCE
 - Pin retention to housing: 9 N min.
 - Retentive leg insertion force: >44.48 N max.
 - Retentive leg board retention: 2.22 N

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

■ Standard: Bags

Optional: Tubes or

Tape-and-reel with pick-up cap (SMT pin style 01 only)

REFERENCE INFORMATION

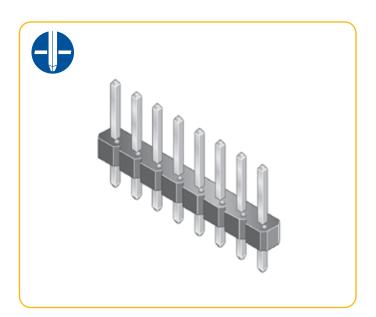
- File no. E66906
 File no. LR46923
- ► Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-114

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

 Dubox™ Crimp-to-wire contacts
 32

 Dubox™ Crimp-to-wire housings
 34

 Dubox™ Vertical receptacles
 22

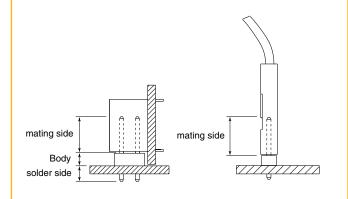
 Dubox™ Low profile vertical receptacles
 24, 26

 Dubox™ Horizontal receptacles
 28

 Quickie™ IDC receptacles
 48

 PV™ Crimp-to-Wire Contacts
 38

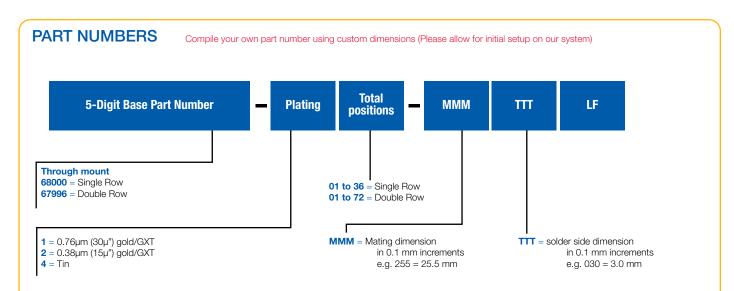
 PV™ Crimp-to-Wire Housings
 40







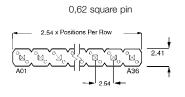
BergStik® Unshrouded Header, Vertical, Custom Sizes

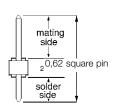


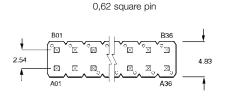
Note: 1. The total combined dimension for mating and solder side may not exceed 27 mm

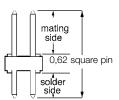
- 2. Standard packaging in bulk
- 3. Special packaging availability upon request

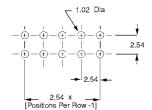
PRODUCT











Recommended PCB layouts

Dimension in mm

- Continuously molded and reeled
- High temperature plastic
- Various lengths cut from 1 part number
- Benchtop machine cuts, polarizes, and applies retentive leg

TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1500 V

MECHANICAL PERFORMANCE

Pin retention to housing: 9 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Reel

REFERENCE INFORMATION

- National E 1990
- File no. LR46923
- Product drawing: 54101 or 54102
- ► Product specification: BUS-12-059

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

 Dubox™ Crimp-to-wire contacts
 32

 Dubox™ Crimp-to-wire housings
 34

 Dubox™ Vertical receptacles
 22

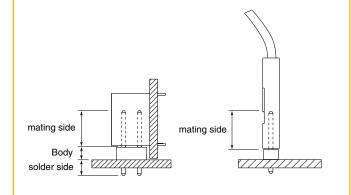
 Dubox™ Low profile vertical receptacles
 24, 26

 Dubox™ Horizontal receptacles
 28

 Quickie™ IDC receptacles
 48

 PV™ Crimp-to-Wire Contacts
 38

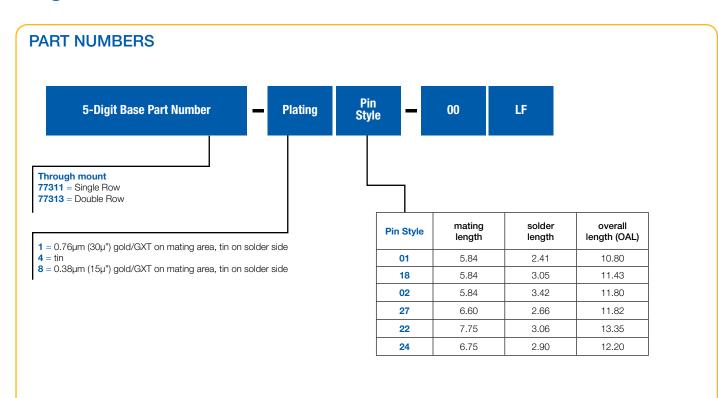
 PV™ Crimp-to-Wire Housings
 40

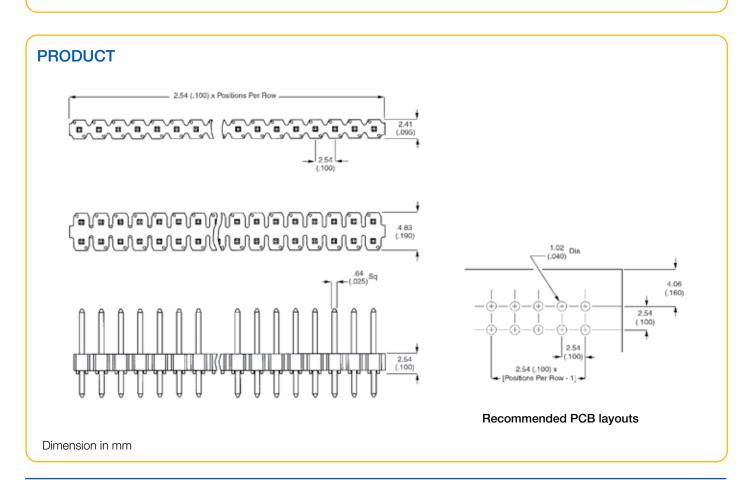






BergStik® Unshrouded Header, Continuous





- High temperature plastic
- Selective plating

TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1500 V

MECHANICAL PERFORMANCE

Pin retention to housing: 9 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Bags

REFERENCE INFORMATION

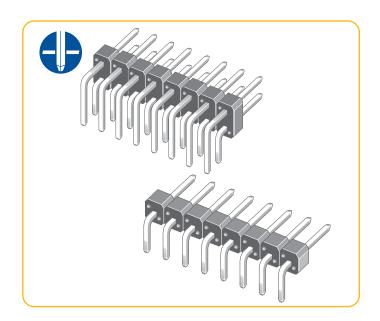
- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-114

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

 Dubox™ Crimp-to-wire contacts
 32

 Dubox™ Crimp-to-wire housings
 34

 Dubox™ Vertical receptacles
 22

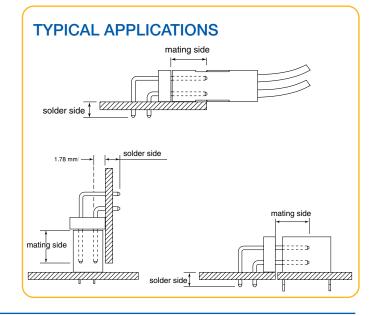
 Dubox™ Low profile vertical receptacles
 24, 26

 Dubox™ Horizontal receptacles
 28

 Quickie™ IDC receptacles
 48

 PV™ Crimp-to-Wire Contacts
 38

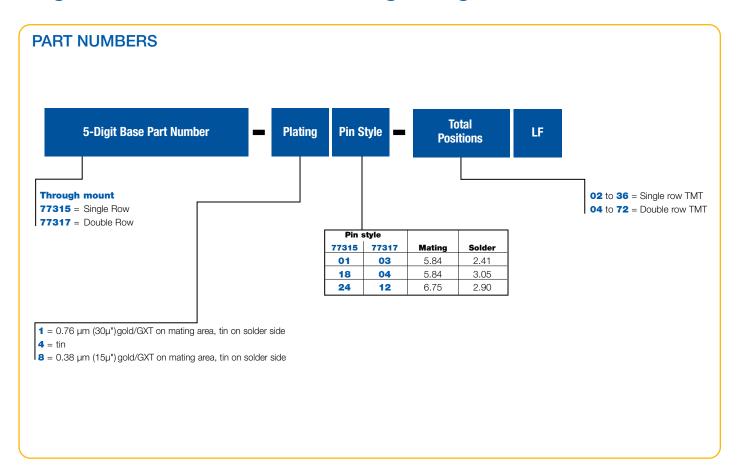
 PV™ Crimp-to-Wire Housings
 40

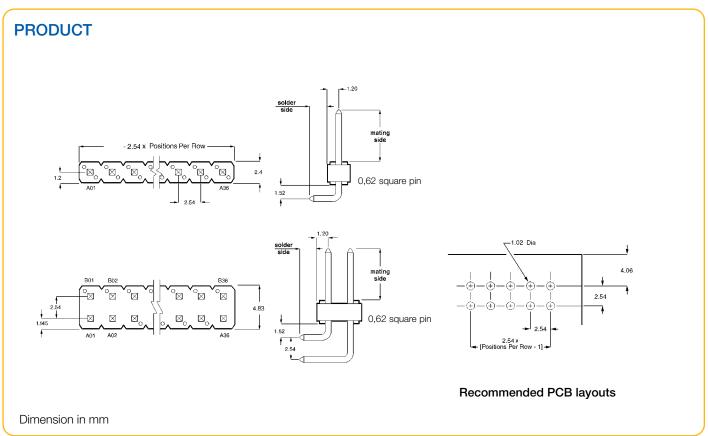






BergStik® Unshrouded Header, Right Angle, Standard Sizes





TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

Current rating: 3 A continuous
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1500 V

MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.
- ▶ Retentive leg insertion force: >44.48 N max.
- Retentive leg board retention: 2.22 N

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Bags

REFERENCE INFORMATION

File no. E66906
File no. LR46923

Product drawing: 55101 or 55102

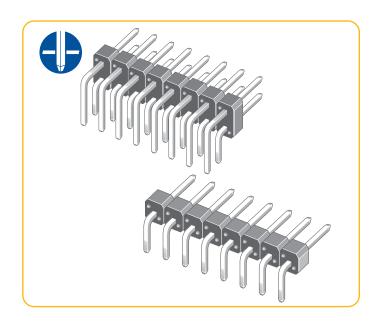
► Product specification: BUS-12-114

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

 Dubox™ Crimp-to-wire contacts
 32

 Dubox™ Crimp-to-wire housings
 34

 Dubox™ Vertical receptacles
 22

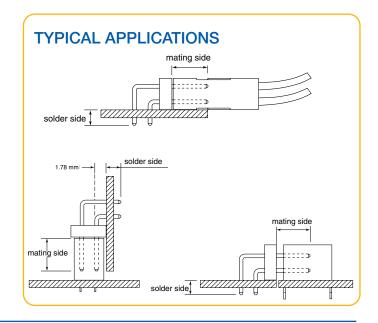
 Dubox™ Low profile vertical receptacles
 24, 26

 Dubox™ Horizontal receptacles
 28

 Quickie™ IDC receptacles
 48

 PV™ Crimp-to-Wire Contacts
 38

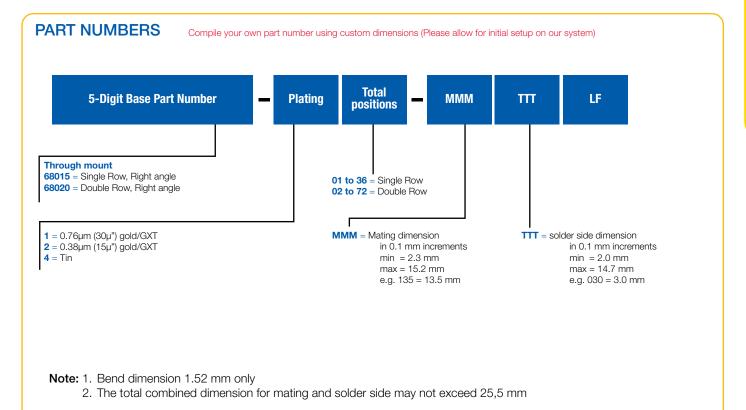
 PV™ Crimp-to-Wire Housings
 40



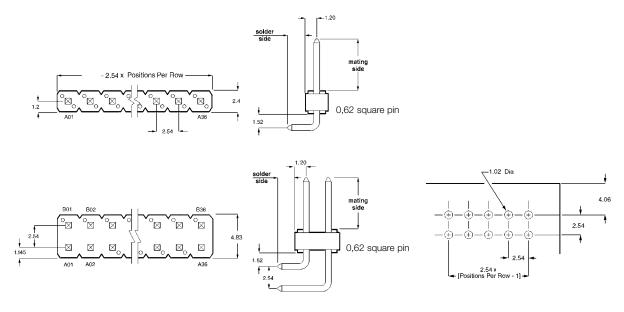




BergStik® Unshrouded Header, Right Angle, Custom Sizes



PRODUCT



Recommended PCB layouts

Dimension in mm

- ▶ Wide variety of stack heights in 0.5 mm increments
- High temperature plastic
- Selective plating

TECHNICAL DATA

PHYSICAL

- ► Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1500 V

MECHANICAL PERFORMANCE

Pin retention to housing: 9 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Bags

REFERENCE INFORMATION

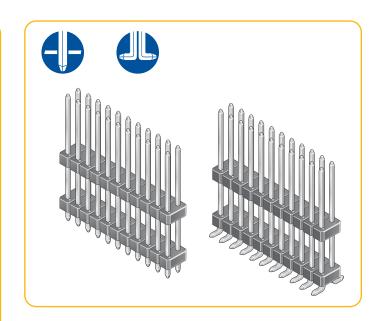
- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-114

▶ PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

RoHs INFORMATION

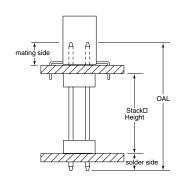
This product is RoHs compatible according to the European Union Directive 2002/95/IEC

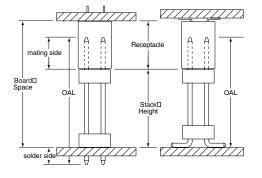


MATING DATA

- Dubox™ Vertical receptacles
- Dubox[™] Low profile vertical receptacles 24, 26

22

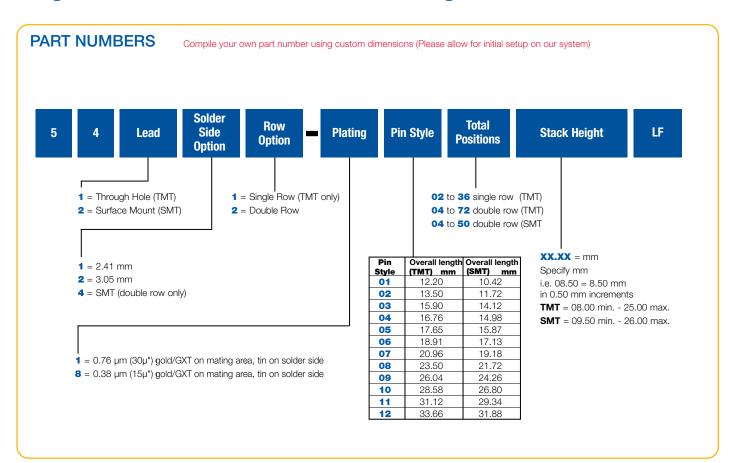




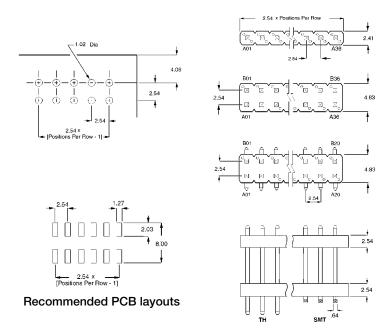




BergStik® Unshrouded Header, Stacking



PRODUCT



The board spacing

is the stack height of this header, plus the height of the receptacle (see application drawings on opposite page)

Dimension in mm

- Dual-beam contacts for added reliability
- Slotted cutout in low profile housing simplifies electrical testing
- Side-by-side and end-to-end stackable

TECHNICAL DATA

PHYSICAL

▶ Housing: Black thermoplastic

Flammability rating: UL 94 V-0

■ Contact: Phosphor-bronze

Plating: Gold or tin over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

Current rating: 2.5 A max. per contact

- ▶ Insulation resistance: 50,000 M Ω min.
- **▶** Contact resistance: 15 M Ω max. initial, 20 M Ω max. after environmental tests

Dielectric withstanding voltage: 800 V

MECHANICAL PERFORMANCE

Mating cycles (durability): 50-Gold, 25-Tin.

▶ Insertion force: 450 gf max. per gold contact

500 gf max. per tin-lead contact

Withdrawal force: 30 gf min. per gold contact

30 gf min. per tin-lead contact.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Plastic bags

REFERENCE INFORMATION

File no. E66906

File no. LR46923

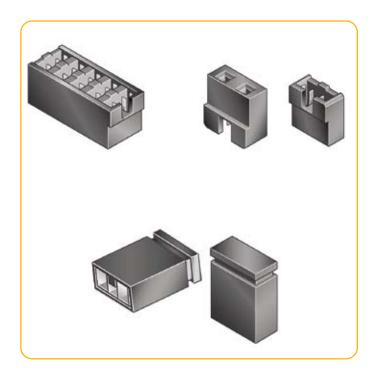
Product drawing: By 5-digit base part number

▶ Product specification: BUS-12-071-gold

BUS-12-070-tin

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

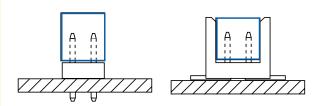
Continuous unshrouded headers 12

Unshrouded vertical headers 8, 10

■ Unshrouded right angle headers 1 14, 16

INSERTION DEPTH

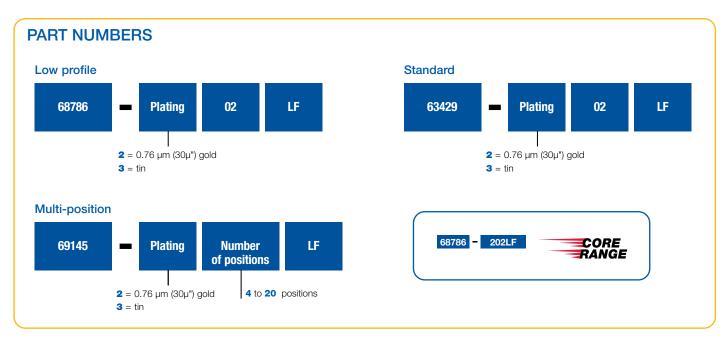
4.85 mm (.191") min.[provides 3.81 mm (.015") wipe] - Low profile

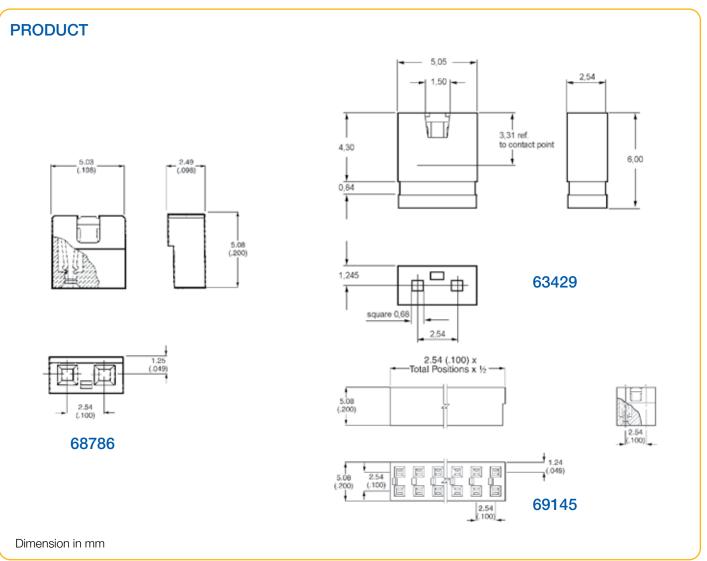






SHUNTS





- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- ▲ 4-wall contact design for signal protection

TECHNICAL DATA

PHYSICAL

- ► Housing: Glass filled thermoplastic polyester, blue
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- ▶ Plating: Gold or tin in accordance with IEC 603-8I

ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact 2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 15 M Ω max. initial, 20 M Ω max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- ► Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- ▶ Withdrawal force per gold contact: 0.30 N (30 gf) min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Plastic boxes or tubes

PROCESSING INFORMATION

■ Compatible with wave soldering processes

REFERENCE INFORMATION

File no. E66906

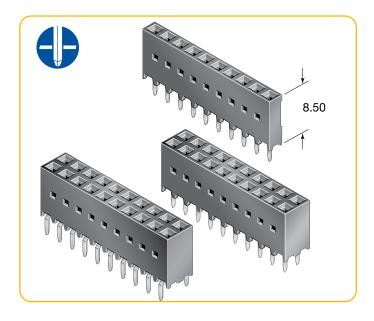
File no. LR46923

Product drawing: By 5-digit base part number

► Product specification: HE 13/14 and IEC 603-8

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



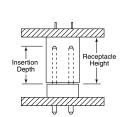
MATING DATA

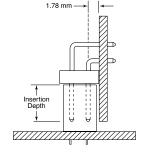
- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® Unshrouded stacking headers 18
- BergStik® continuous Unshrouded headers 12

INSERTION DEPTH

- Top Entry: 3.6 mm min. to 6.81 mm max. [provides .381 mm wipe]
- Bottom Entry: 7 mm min. [provides .381 mm wipe] plus board thickness

TYPICAL APPLICATIONS



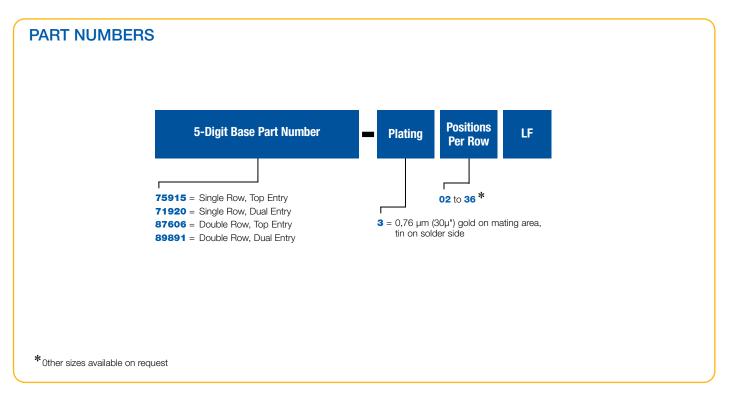


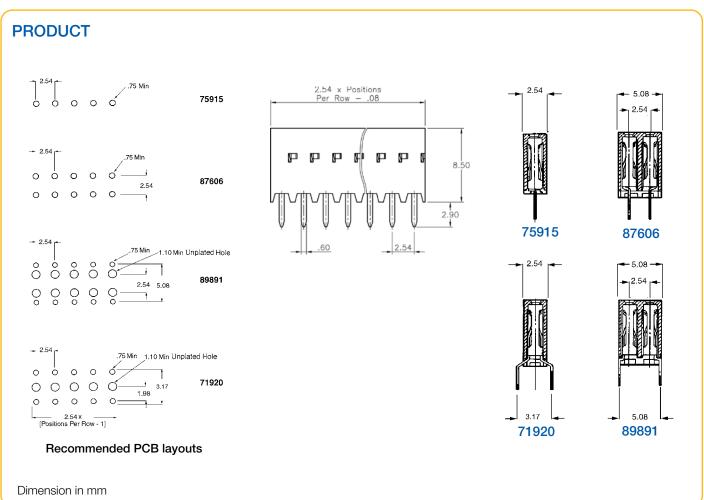
www.fci.com/basics





Dubox™ Vertical Receptacles





- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- ▲ 4-wall contact design for signal protection

TECHNICAL DATA

PHYSICAL

- ► Housing: Glass filled thermoplastic polyester, blue
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact 2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 15 M Ω max. initial, 20 M Ω max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- ► Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- ▶ Withdrawal force per gold contact: 0.30 N (30 gf) min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Plastic boxes or tubes

PROCESSING INFORMATION

■ Compatible with wave soldering processes

REFERENCE INFORMATION

File no. E66906

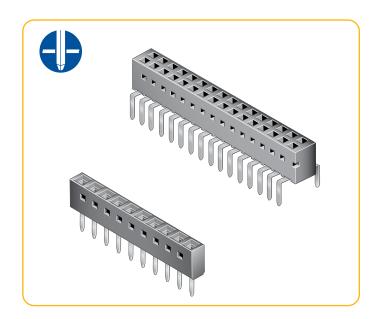
File no. LR46923

Product drawing: By 5-digit base part number

► Product specification: BUS-12-055

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ BergStik® Unshrouded vertical headers

■ BergStik® Unshrouded right angle headers 14, 16

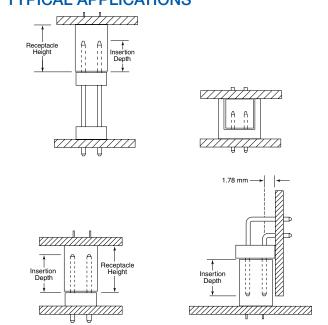
8, 10

■ BergStik® Unshrouded stacking headers 18

▶ BergStik® continuous Unshrouded headers

INSERTION DEPTH

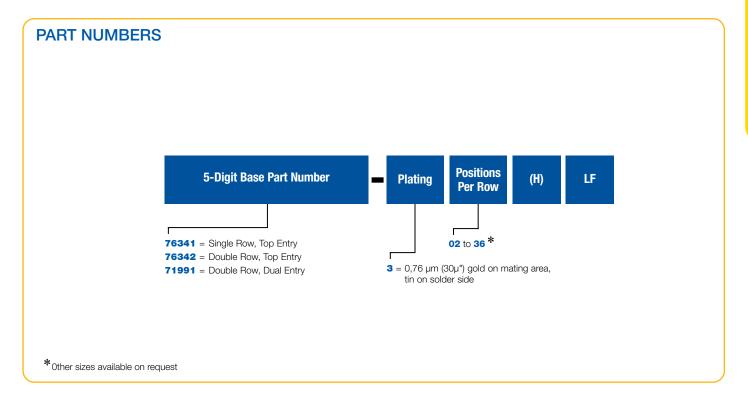
- Top Entry: 3.6 mm min. to 6.7 mm max. [provides .381 mm wipe]
- Bottom Entry: 6 mm min. [provides .381 mm wipe] plus board thickness





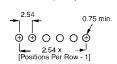


Dubox™ Vertical Receptacles, Low Profile



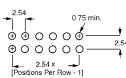
PRODUCT

P/N 76341 Top Entry

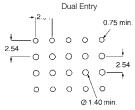


P/N 76342

Top Entry

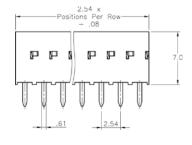


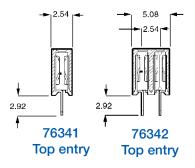
P/N 71991

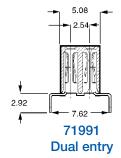


Recommended PCB layouts

Dimension in mm







- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- ▲ 4-wall contact design for signal protection

TECHNICAL DATA

PHYSICAL

- Housing: High temperature body, grey
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



■ ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact 2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 15 MΩ max. initial, 20 MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- ▶ Withdrawal force per gold contact: 0.30 N (30 gf) min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

- Plastic boxes or tubes
- Tape and reel as available

PROCESSING INFORMATION

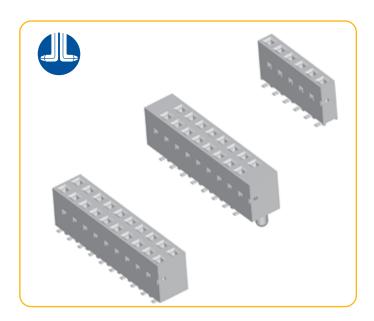
Compatible with vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-055

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC

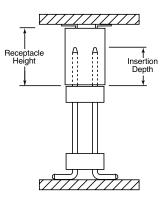


MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- ▶ BergStik® Unshrouded right angle headers 14, 16
- BergStik® Unshrouded stacking headers 18
- BergStik® continuous Unshrouded headers

INSERTION DEPTH

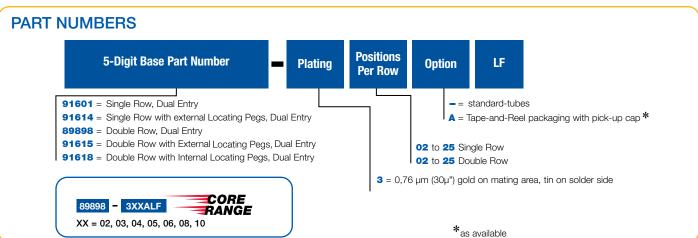
- ► Top Entry: 3.6 mm min. to 6.7 mm max. [provides .381 mm wipe]
- Bottom Entry: 6 mm min. [provides .381 mm wipe] plus board thickness

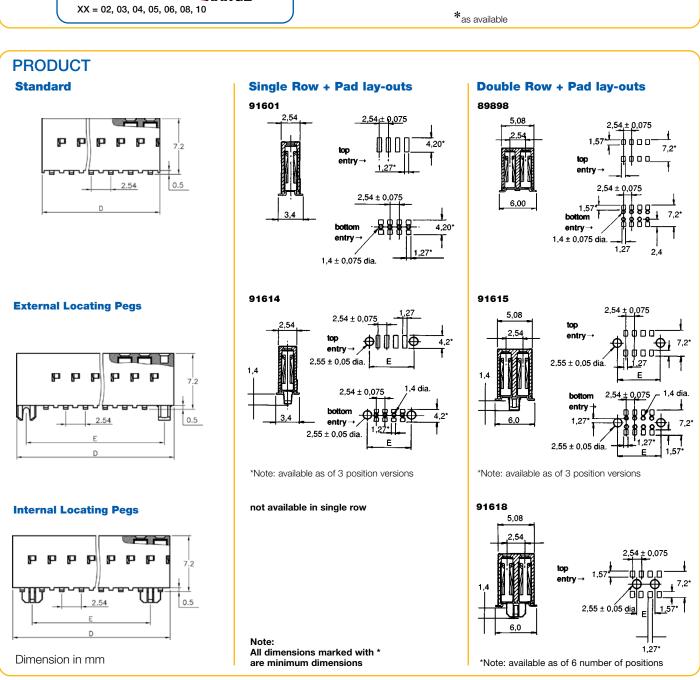






Dubox™ Vertical Receptacles, Low Profile





- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Floating solder tails self-center on circuit pads and assure coplanarity
- ▲ 4-wall contact design for signal protection

TECHNICAL DATA

PHYSICAL

- Housing: Blue thermoplastic -Through hole High temp. grey thermoplastic - Surface mount
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact 2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 15 M Ω max. initial, 20 M Ω max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- ▶ Withdrawal force per gold contact: 0.30 N (30 gf) min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Standard: Tubes

■ Optional: Tape-and-reel

PROCESSING INFORMATION

- Series 89882, 89883: compatible with wave soldering processes
- Series 71607, 71609: compatible with vapor-phase and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 71607, 71609, 89882, 89883
- ▶ Product specification: HE 13/14 and IEC 603-8
- Application specification: TA-842 for SMT
- Tape and Reel packaging data : TA-856

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC





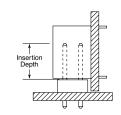


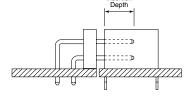
MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® continuous Unshrouded headers 12

INSERTION DEPTH

3,6 mm min. to 7.50 mm max. [provides .381 mm wipe]

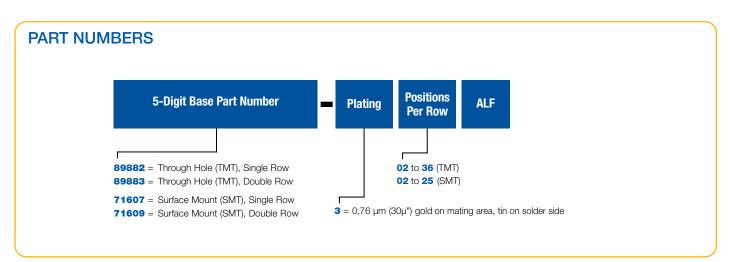


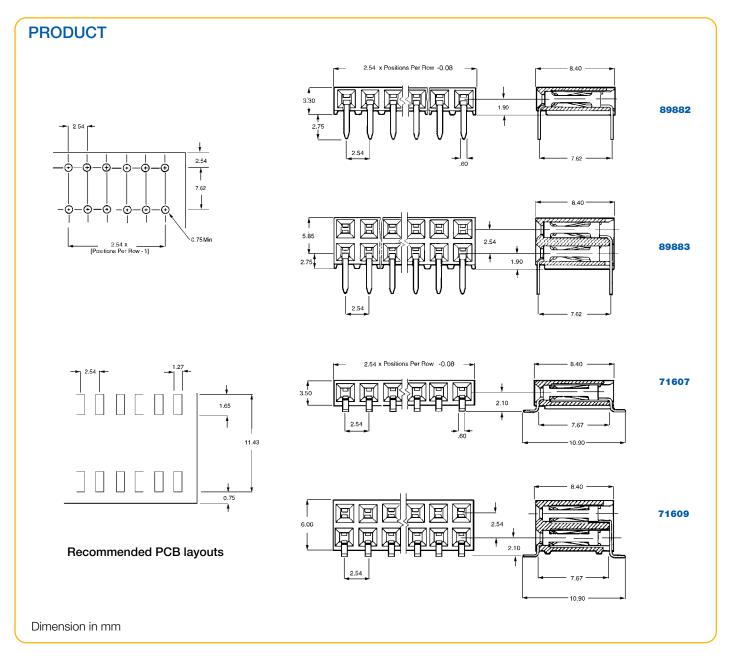






Dubox™ Horizontal Receptacles





- For use with Dubox™ crimp-to-wire housings
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ crimp-to-wire housings
- Selective plating

TECHNICAL DATA

PHYSICAL

- Housing: Glass filled thermoplastic polyester
- ► Housing color for series 76382, 76383: blue Housing color for series 76384, 76385: black
- ► Flammability rating: UL 94 V-0
- Contact: copper Alloy
- ► Plating: Gold or tin over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

Contact retention to housing: 20 N min.

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

- ▶ 1x2 to 1x6 and 2x2 to 2x6: plastic bags
- Other in tube

▶ PROCESSING INFORMATION

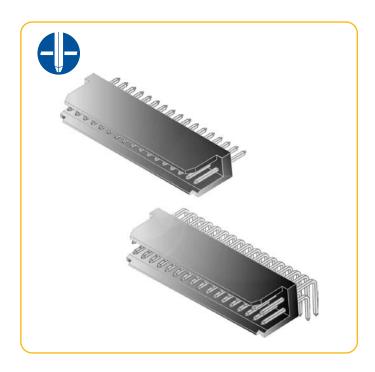
■ Compatible with wave soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- ▶ Product drawing: By 5-digit base part number
- ▲ Application specification: TA-531

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

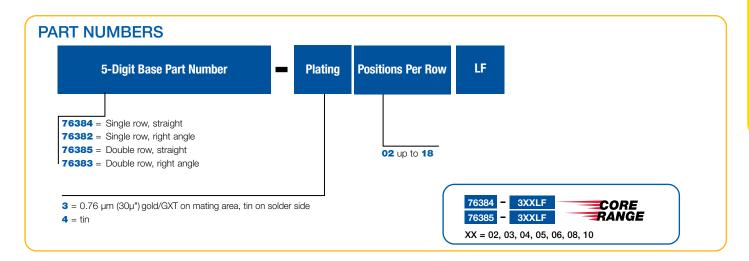
- Dubox[™] Crimp-to-wire contacts 32
- Dubox[™] Crimp-to-wire housings 34

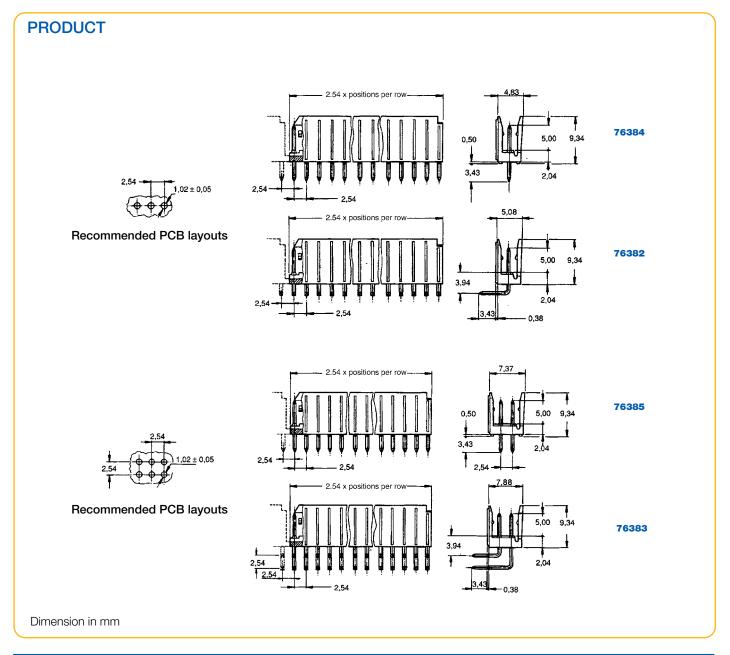
TYPICAL APPLICATIONS Insertion Depth Dept





Dubox™ Shrouded Headers





- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force.
- Mates with very short pins (5 mm)
- Universal crimp barrel accomodates wires from AWG 22-30
- Selective plating

TECHNICAL DATA

PHYSICAL

- Contact: phosphor bronze
- Plating: 0.76 μm (30μ") Gold over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Contact resistance after environmental test: 15Ω m max. – Contact
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200 Gold
- Insertion force gold finish contact: 1.3 N
- ▶ Withdrawal force (min) gold finish contact: 0.3 N.
- contact retention force to housing: 15 N per contact.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

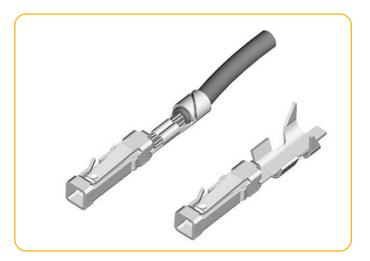
- 1Reels
- Boxes Loose piece

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-055
- Application specification: TA-317, TA-340

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC

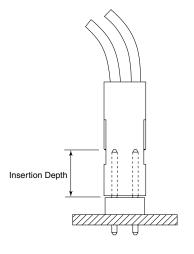


MATING DATA

- BergStik® unshrouded straight headers 8, 10
- BergStik® unshrouded right angle headers 14, 16
- Dubox[™] shrouded vert./ra. headers
- BergStik® continuous unshrouded headers 12

INSERTION DEPTH

- Discrete Wire: 3.6 mm min. to 5.6 mm max. [provides .381 mm wipe]
- Crimp-to-Wire Housing: 5.1 mm min. to 6.2 mm max. [provides .381 mm wipe in housing]







Dubox™ Crimp-to-Wire Contacts

PART NUMBERS

Part numbers / Contacts on Reel

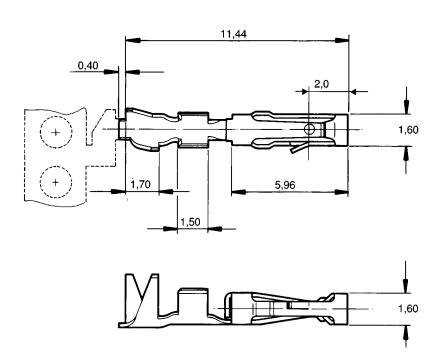
Wire size	insulation O.D.	Selective Gold Plated	Tin plated	Packaging
22-30	0.90 - 1.50	76347-301LF	76347-401LF	15.000/reel
22-30	0.90 - 1.50	76347-302 LF•	76347-402LF•	15.000/reel
22-30	0.90 - 1.50	76347-303 LF	76347-403LF	500/reel
20-22	1.10 - 1.60	76347-311LF	76347-411LF	15.000/reel
20-22	1.10 - 1.60	76347-312 LF•	76347-412LF•	15.000/reel

Part numbers / Contacts loose Piece

Wire size	insulation O.D.	Selective Gold Plated	Tin plated	Packaging		
22-30	0.90 - 1.50	76357-301LF	76357-401LF	1000/box		
Notes: • = reeled for application machine with left-to-right feeding						



PRODUCT



Contacts to be used with housing = 65239-xxx / 65240-xxx

Wire strip length = $3,00 \pm 0,25 \text{ mm}$

Mating pin size = 0,62 mm square

Mating pin recommended length = 5,00 mm min.

- ► For use with Dubox[™] crimp-to-wire contacts
- Stackable end-to-end
- ▶ Passive latching, anti-reverse and anti-miss-match when used with Dubox[™] shrouded headers
- Contacts removable for easy repairability

TECHNICAL DATA

PHYSICAL

- Housing: Glass filled thermoplastic polyester
- Housing color blue
- ► Flammability rating: UL 94 V-0

ELECTRICAL PERFORMANCE

- Insulation resistance: 1x 10⁵ MΩ min.
- Dielectric withstanding voltage: 1000 V rms

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Bulk

PROCESSING INFORMATION

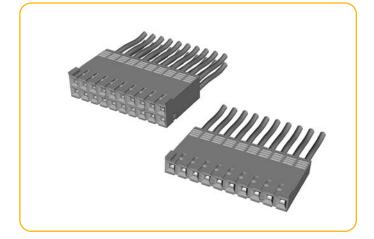
■ Compatible with wave soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Application specification: TA-317, TA-340

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

- BergStik® unshrouded straight headers 8, 10
- BergStik® unshrouded right angle headers 14, 16
- Dubox[™] shrouded vert./ra. headers 30

INSERTION DEPTH

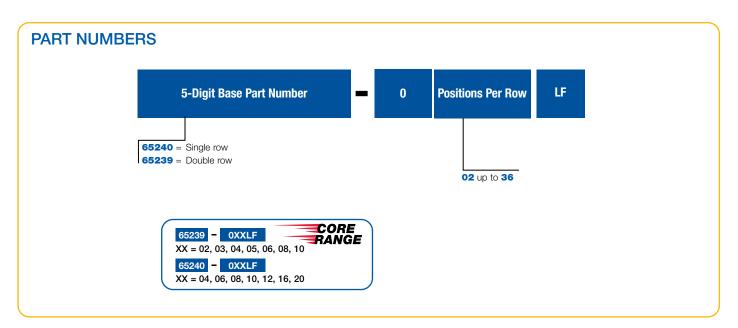
≥ 3.6 mm min. to 6.0 mm max.

TYPICAL APPLICATIONS Insertion Depth Insertion Depth Depth

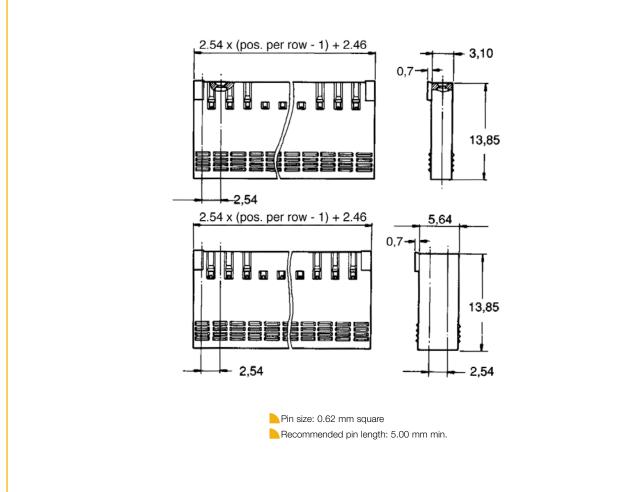




Dubox™ Crimp-to-Wire Housings



PRODUCT



- Housing uses our high reliability contact
- High temperature headers
- Passive latching system

TECHNICAL DATA

PHYSICAL

- ▶ Housing: Black thermoplastic
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin-lead over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 1x 10⁵ MΩ min.
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

■ Contact retention to housing: 17.76 N min.

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

Bags

PROCESSING INFORMATION

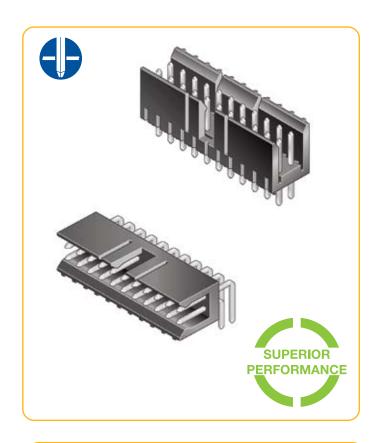
Compatible with wave soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ▶ Product specification: BUS-12-067, BUS-12-075
- ▲ Application specification: TA-531

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

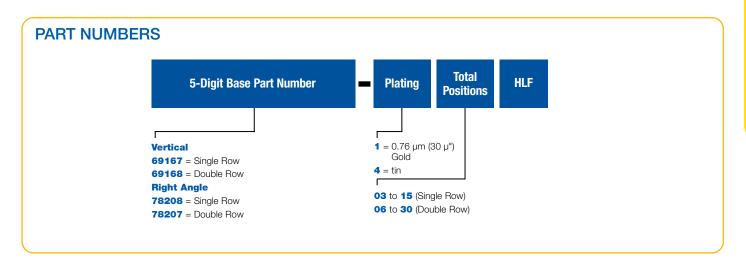
- PV™ Crimp-to-wire contacts 38
- Note: PV™ Crimp-to-wire housings 40

TYPICAL APPLICATIONS Insertion Depth Dept

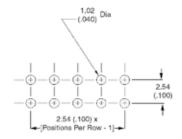




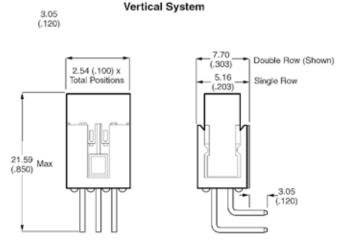
PV™ Shrouded Headers



PRODUCT 2.54 (.100) x Total Positions 16.38 (.645) Double Row (Shown) Single Row



Recommended PCB layouts



Right Angle System

Dimension in mm

- High reliability contacts for shock and vibration applications
- Three spring thickness options meet application specific insertion, withdrawal, and normal force requirements
- Leaf spring design provides constant retention force after repeated cycles

TECHNICAL DATA

PHYSICAL

- Contact: Brass body with beryllium-copper spring
- Pin: Brass
- Plating: Gold or tin over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous depending on wire size
- ▶ Insulation resistance: 5000 m Ω min.
- ► Contact resistance after environmental test: 15Ω m max. Contact
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

- Mating cycles (durability): 1000 Gold
- Insertion force per gold contact:

2.35 N (240 gf) - Standard spring 4.41 N (450 gf) - High spring 10.79 N (1100 gf) - Ultra high spring

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

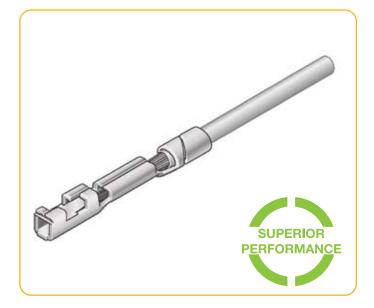
- 1Reels
- Boxes Loose piece

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-067 Contact
- Application specification: TA-75, TA-146 Contact, TA-295, TA-228 and TA-302

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

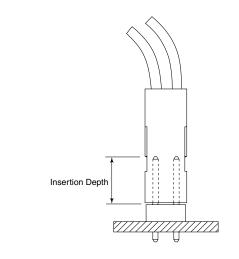
Continuous unshrouded headers 12

■ Unshrouded vertical headers 8, 10

■ Unshrouded right angle headers 14, 16

INSERTION DEPTH

- Discrete Wire: 3.5 mm min. to 5.3 mm max. [provides .381 mm wipe]
- Crimp-to-Wire Housing: 4.2 mm min. to 5.3 mm max. [provides . 381 mm (.015") wipe in housing]







LF

PV™ Crimp-to-Wire Contacts

PART NUMBERS

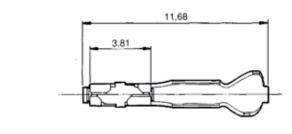
HOW TO SELECT
THE RIGHT CONTACT
Step 1 Select Application

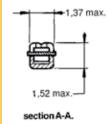
Step 2 Select Spring Force
Step 3 Select Wire Size

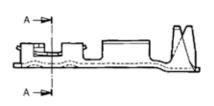
5-Digit Base Part Number 1 2 Application Spring Force Housing 40-72 Contacts Per Housing Standard 10-50 Contacts Per Housing High 2-20 Contacts Per Housing Ultra High Discrete Contact Ultra High

Wire Size (AWG)	Application Spring Force	Part Number
18, 20	Standard	48276-002LF
or two 22	High	48047-002LF
or two 24	Ultra High	47566-002LF
22, 24, 26	Standard	47457-002LF
or two 26	High	47439-002LF
or two 28	Ultra High	47565-002LF
28, 30, 32	Standard	48048-002LF
or two 30	High	47437-002LF
or two 32	Ultra High	47564-002LF

PRODUCT







Standard Mini-PV 1.75 0.00 - 0.89 0.508 ± 0.05 0.127 min. 1.32 max. Rear-belimouth Crimp height Refer to TA75, TA146

3-Digit

Dash Number



- Lowest profile housing in the industry
- Designed for use with our high reliability PV[™] Contact

TECHNICAL DATA

PHYSICAL

- Housing: Black thermoplastic
- Flammability rating: UL 94 V-0

ELECTRICAL PERFORMANCE

- Insulation resistance: 1x 10⁵ MΩ min.
- Dielectric withstanding voltage: 1000 V rms

MECHANICAL PERFORMANCE

Contact retention to housing: 17.76 N min.

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

Bags

PROCESSING INFORMATION

Compatible with wave soldering processes

REFERENCE INFORMATION

- **File no. E66906**
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Aroduct specification: BUS-12-067
- Application specification: TA-531

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

Continuous unshrouded headers 12

Unshrouded vertical headers 8, 10

■ Unshrouded right angle headers 14, 16

INSERTION DEPTH

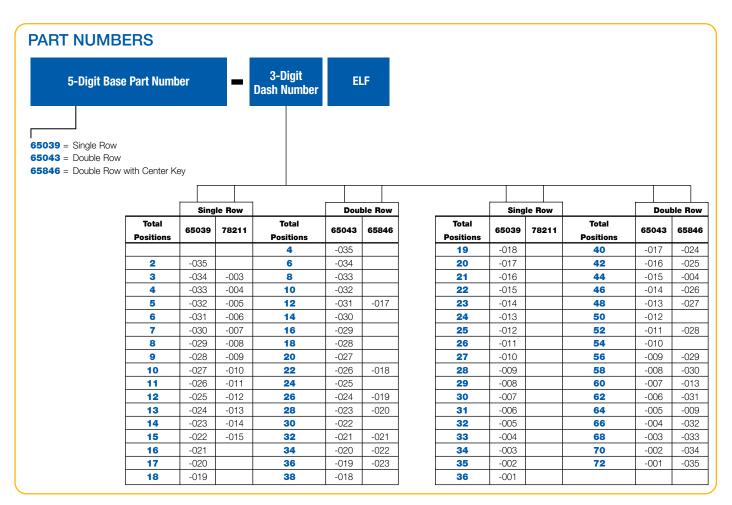
▲ 4.2 mm (.165") min. to 5.3 mm (.210") max. [provides .381 mm (.015") wipe in housing].

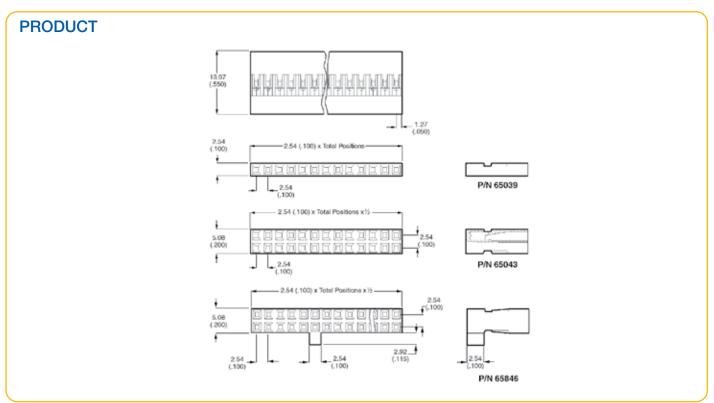
TYPICAL APPLICATIONS Insertion Depth Insertio





PV™ Crimp-to-Wire Housings





- Recessed pins assure proper alignment and eliminate damage during mating
- ▶ End windows for latching with IDC receptacle

TECHNICAL DATA

PHYSICAL

- Housing: Glass filled, thermoplastic polyester, blue
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- ► Plating: Gold/GXT over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Dielectric withstanding voltage: 500 V rms min.

MECHANICAL PERFORMANCE

Pin retention to housing: 20 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +105°C

PACKAGING

Tubes

PROCESSING INFORMATION

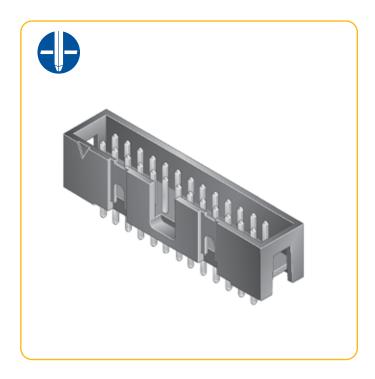
Compatible with wave soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-082

RoHs INFORMATION

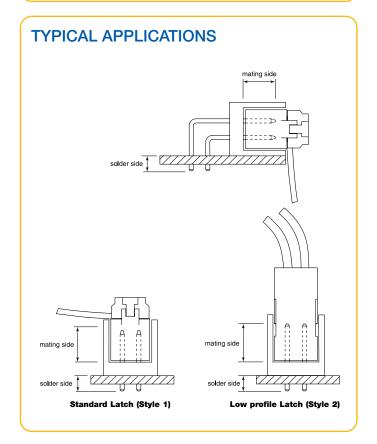
■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ Quickie[™] IDC receptacles

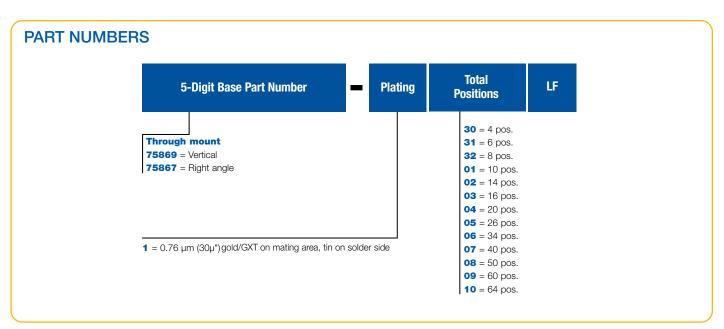
48

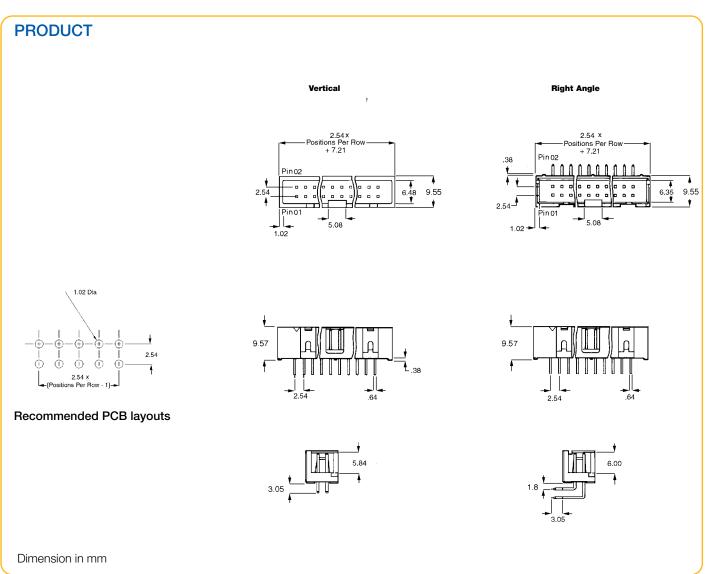






Quickie™ Shrouded Headers, Low Profile





- High temperature housing
- Compatible with IR reflow soldering processes
- ► Tape-and-Reel packaging for automatic pick-and-place

TECHNICAL DATA

PHYSICAL

Housing: Glass filled,
 high temperature thermoplastic polyester, black



- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 M\Omega$ min.
- Dielectric withstanding voltage: 500 V rms min.

MECHANICAL PERFORMANCE

Pin retention to housing: 20 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

- SMT: Tape-and-reel with pick-up cap
- PiP, right angle: Tube without pick-up cap
- PiP, straight: Tape and reel

▶ PROCESSING INFORMATION

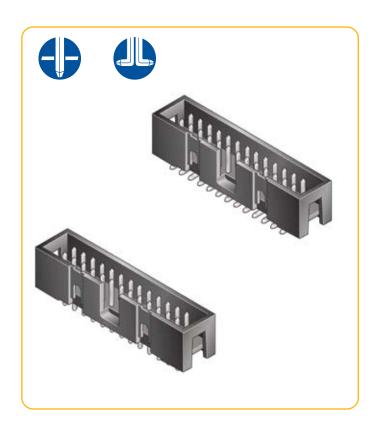
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-055

RoHs INFORMATION

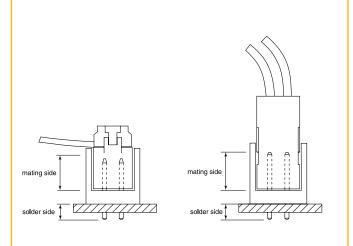
■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

Quickie™ IDC receptacles

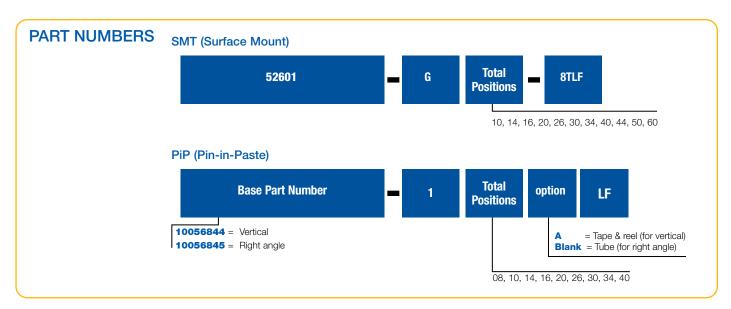
48

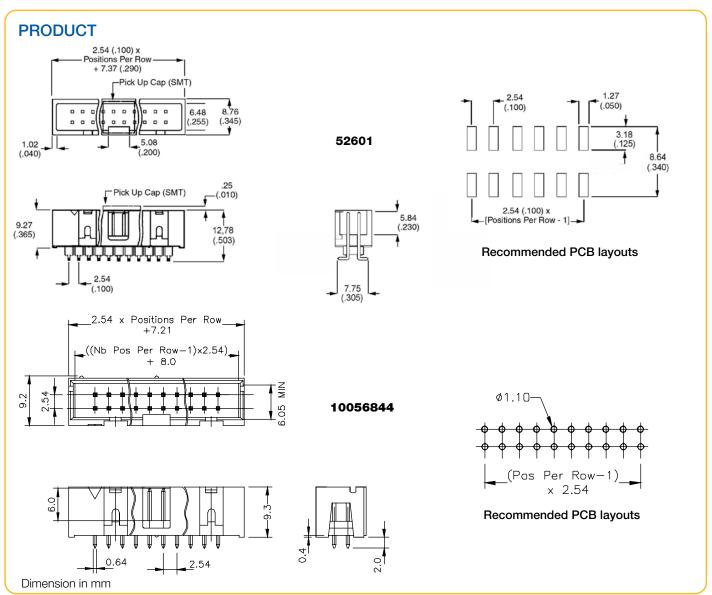






Quickie™ Shrouded Headers, Low Profile, SMT, Pin-in-Paste



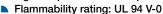


- Selective plating
- Recessed pins assure proper alignment and eliminate damage during mating

TECHNICAL DATA

PHYSICAL

Housing: Glass filled,
 high temperature thermoplastic polyester, grey





Plating: Gold/GXT over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE

Current rating: 3 A continuous

▶ Insulation resistance: $1x 10^5 MΩ$ min.

■ Dielectric withstanding voltage: 500 V rms min.

MECHANICAL PERFORMANCE

Pin retention to housing: 20 N min.

OPERATING TEMPERATURE RANGE

► -65°C to +105°C

PACKAGING

Tubes

PROCESSING INFORMATION

■ Compatible with wave soldering processes

REFERENCE INFORMATION

File no. E66906

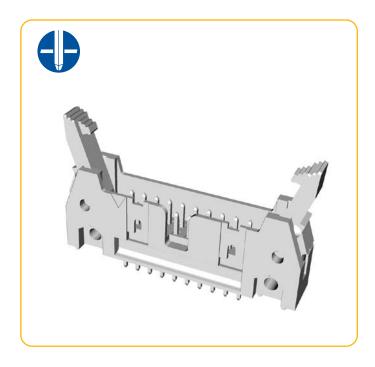
File no. LR46923

▶ Product drawing: By 5-digit base part number

► Product specification: BUS-12-082

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC

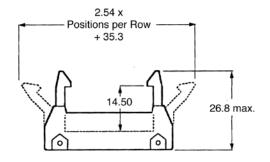


MATING DATA

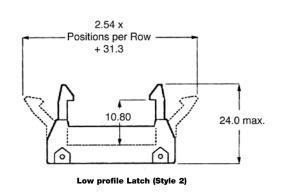
Quickie™ IDC receptacles

48

TYPICAL APPLICATIONS



Standard Latch (Style 1)

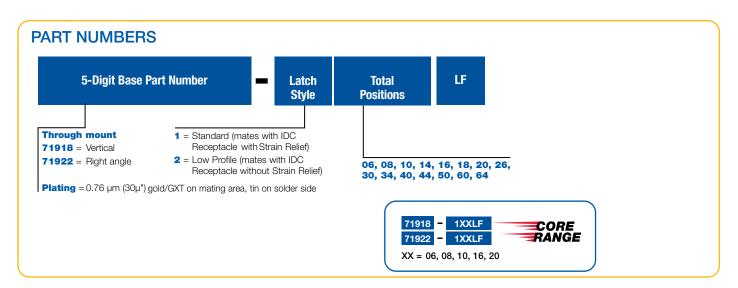


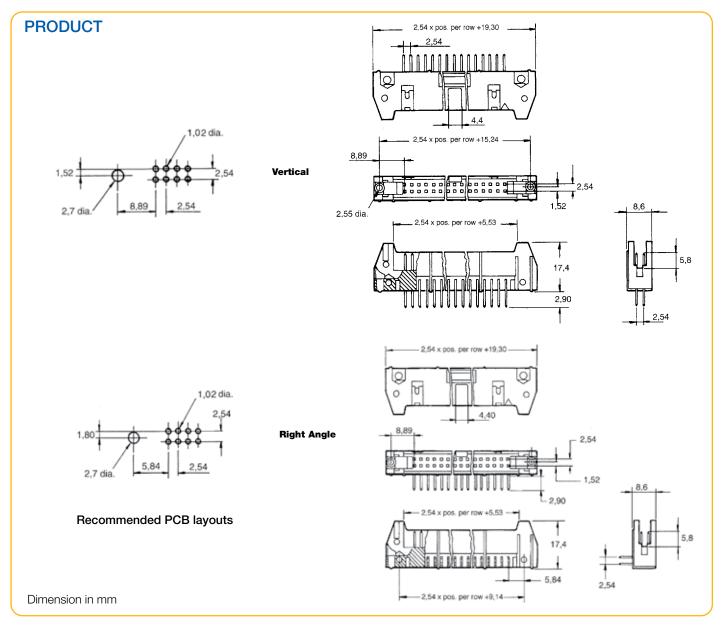
www.fci.com/basics





Quickie™ Shrouded Headers, Eject Latch





TECHNICAL DATA

PHYSICAL

- ► Housing: Grey thermoplastic Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- ► Plating: 0.76 μm (30μ") Gold over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- ▶ Contact resistance: 15 m Ω max.
- Dielectric withstanding voltage: 1000 V min. rms (sea level)

MECHANICAL PERFORMANCE

■ Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

► -65°C to +105°C

PACKAGING

Tubes

PROCESSING INFORMATION

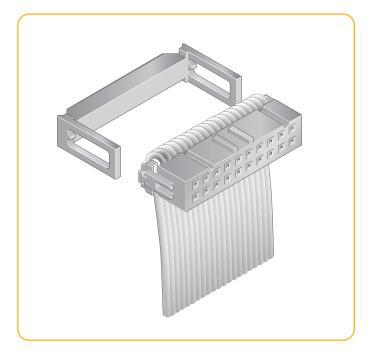
Compatible with wave soldering processes

REFERENCE INFORMATION

- File no. E66906
 File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-095

RoHs INFORMATION

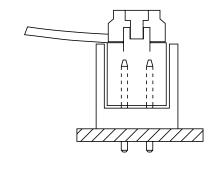
This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

- BergStik® unshrouded vertical headers 8, 10, 12
- Quickie® shrouded low profile headers 42, 44
- Quickie® shrouded eject latch headers 46

TYPICAL APPLICATIONS

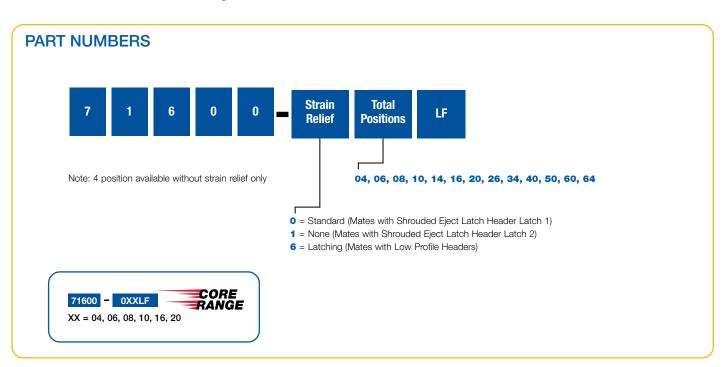


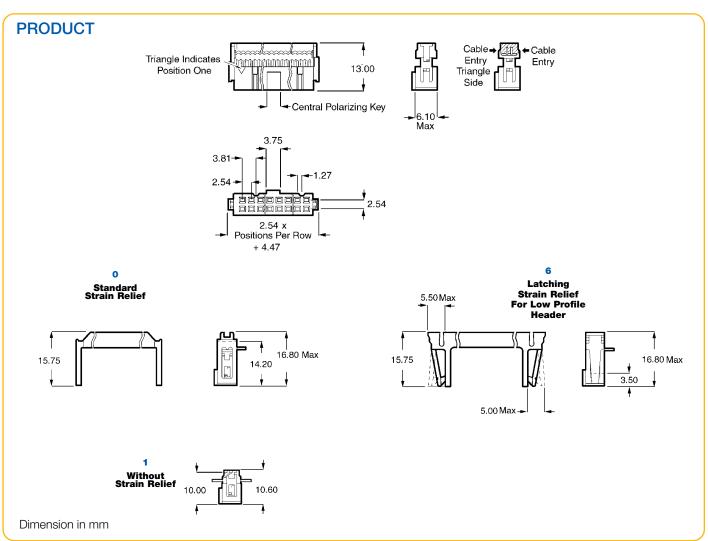
Low profile Latch (Style 2)





Quickie™ IDC Receptacle





- ldeal for daisy chain applications
- Single piece design provides one of the lowest applied costs in the industry

TECHNICAL DATA

PHYSICAL

- Housing: Blue thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Tin over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 15 mΩ max.
- Dielectric withstanding voltage: 1000 V min. rms (sea level)

OPERATING TEMPERATURE RANGE

► -65°C to +125°C

PACKAGING

Tubes

PROCESSING INFORMATION

 Compatible with wave and vapor phase soldering processes — Low temperature

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- ► Product specification: BUS-12-095

RoHs INFORMATION

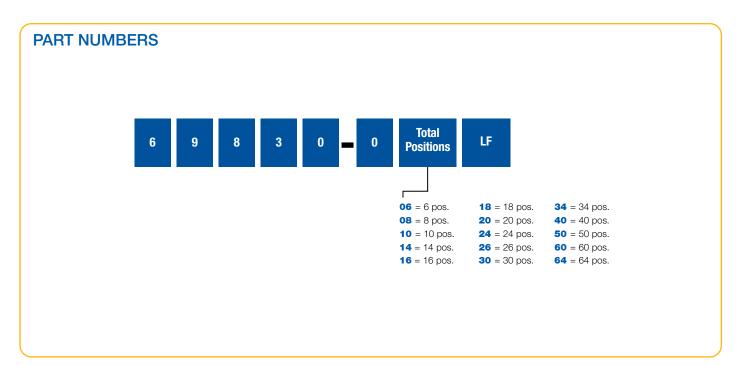
■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



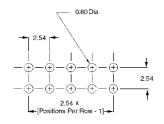




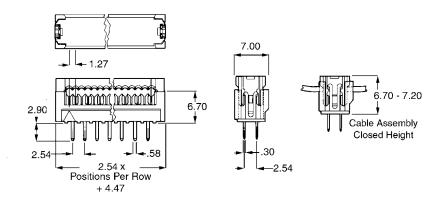
Quickie™ IDC PCB Connector



PRODUCT



Recommended PCB layouts



Dimension in mm

TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- ► Plating: Gold/GXT over 1.27 μm (50μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

- ▶ Standard: TMT in tubes (04 to 06 pos. packed in box)
- SMT in Tape-and-reel
- Optional: SMT in Tubes

▶ PROCESSING INFORMATION

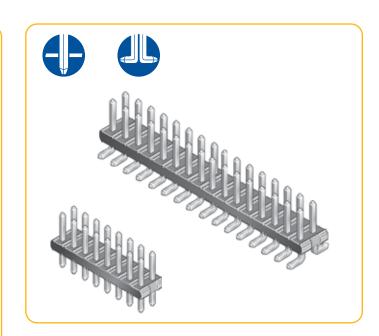
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 57102 or 57202
- ▶ Product specification: DPS-12-011 and GS-12-163
- Tape and Reel packaging data: TA-884

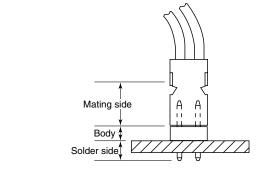
RoHs INFORMATION

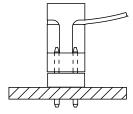
This product is RoHs compatible according to the European Union Directive 2002/95/IEC

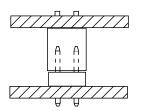


MATING DATA

Minitek™ ctw contacts and housings
 Minitek™ Vertical receptacles
 Minitek™ Shunts
 Minitek™ IDC receptacles



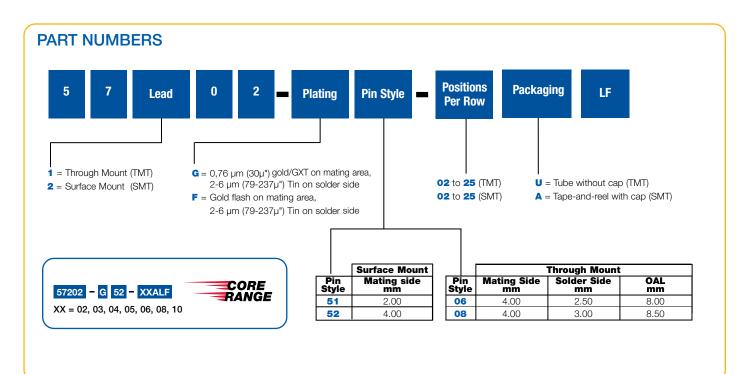


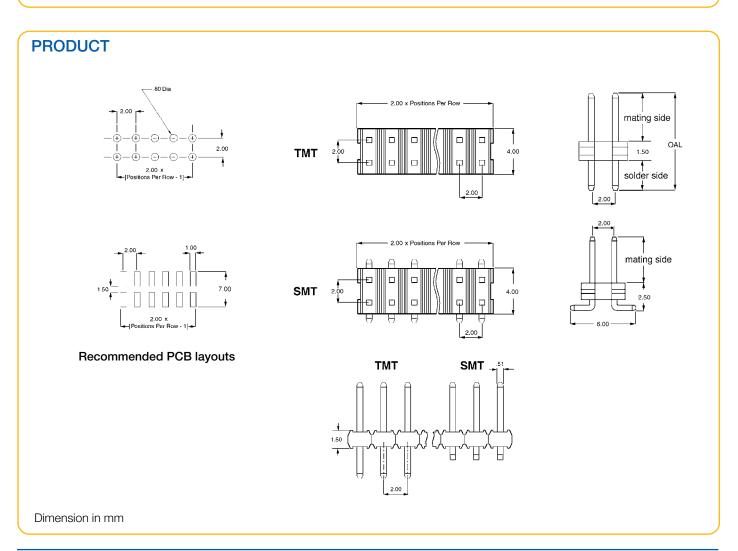






Minitek™ Unshrouded Vertical Headers





- High temperature plastic
- Selective plating

TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27 μm (50μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 M\Omega$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

■ Tubes (04 to 06 pos. packed in box)

PROCESSING INFORMATION

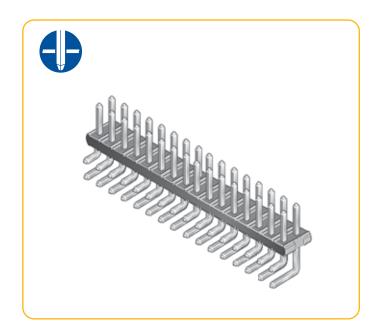
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- ▶ Product drawing: 98423
- ▶ Product specification: DPS-12-011 and GS-12-163

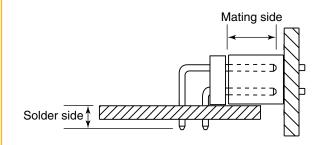
RoHs INFORMATION

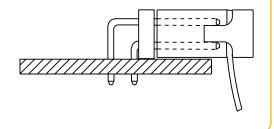
This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

Minitek™ ctw contacts and housings
 Minitek™ Vertical receptacles
 Minitek™ Shunts
 Minitek™ IDC receptacles
 76



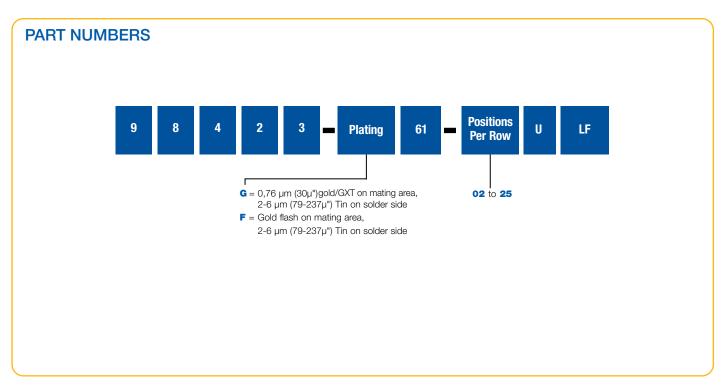


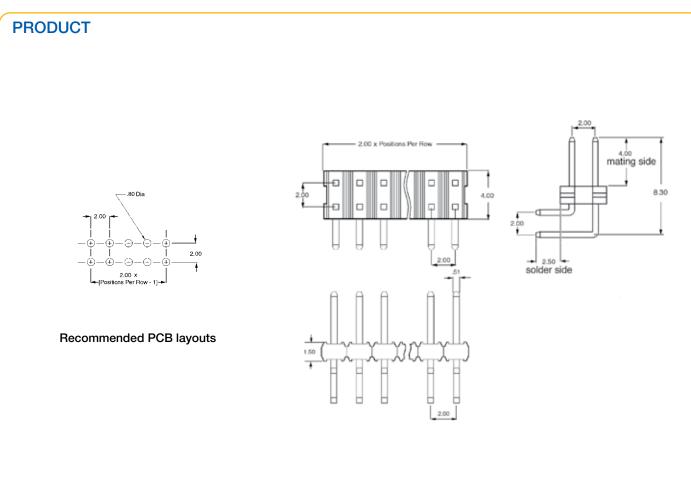


Dimension in mm



Minitek™ Unshrouded Right Angle Headers





TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- ▶ Plating: Gold/GXT over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE



- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 M\Omega$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

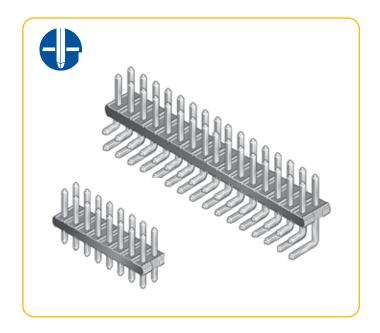
- Tubes (04 to 06 pos. packed in box)
- Tape on reel with pick up cap

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

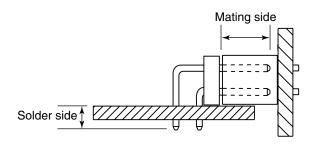
REFERENCE INFORMATION

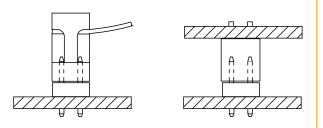
- File no. E66906
- File no. LR46923
- Product drawing: by 8-digit base part number
- ▶ Product specification: DPS-12-011 and GS-12-163
- Application specification: TA-895
- ► Reflow prpfile: TA-842



MATING DATA

Minitek™ ctw contacts and housings
 Minitek™ Vertical receptacles
 Minitek™ Shunts
 Minitek™ IDC receptacles

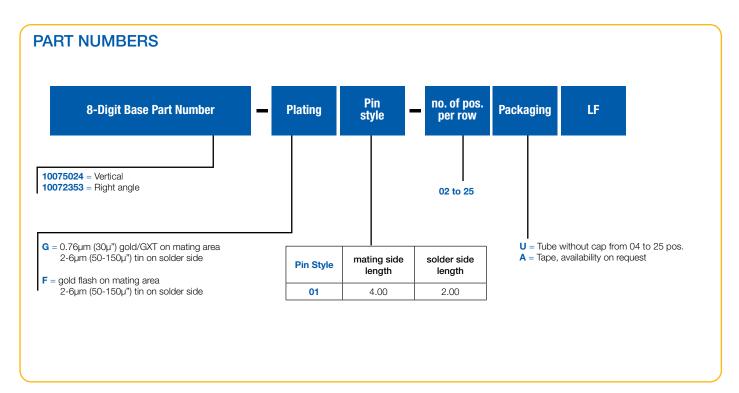


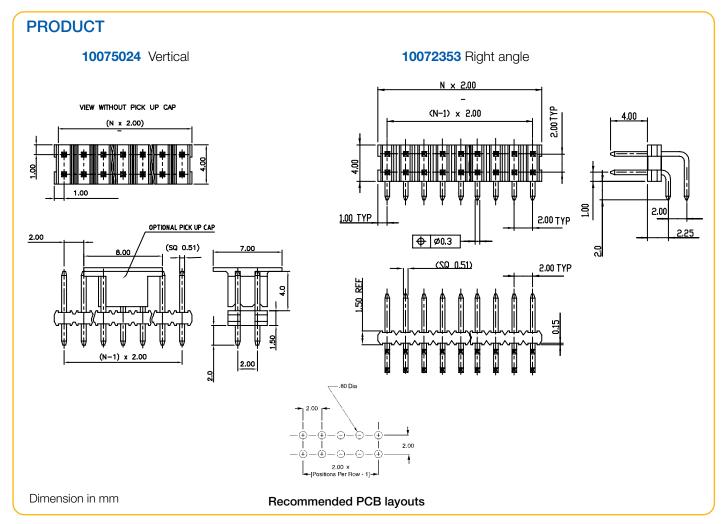






Minitek™ Unshrouded Headers, Pin-in-Paste





- ▶ Wide variety of stack heights in 0.13 mm increments
- Custom sizes to meet your specific design requirements

TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- Plating: Gold over over 1.27 μm (50μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

Standard: in bags

PROCESSING INFORMATION

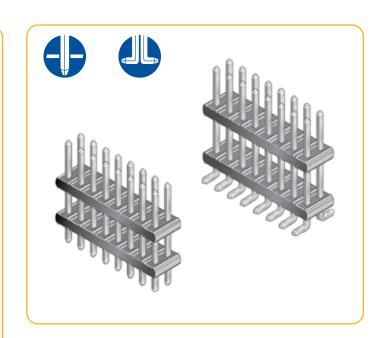
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 59112, 59132, or 59202
- ► Product specification: DPS-12-011

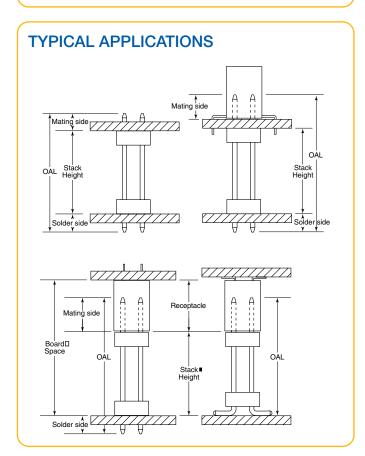
RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

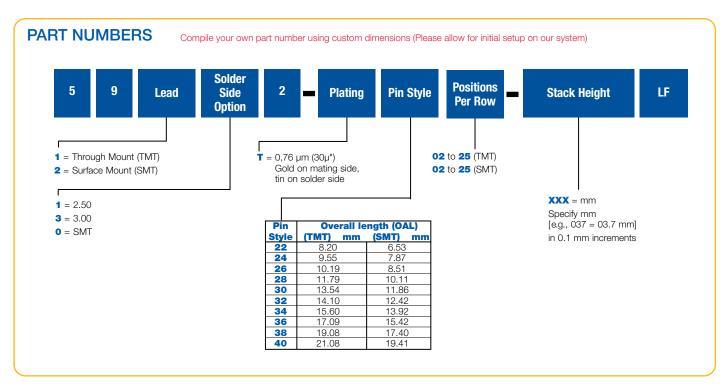
Minitek™ ctw contacts and housings 72
Minitek™ Vertical receptacles 60
Minitek™ Shunts 62
Minitek™ IDC receptacles 76

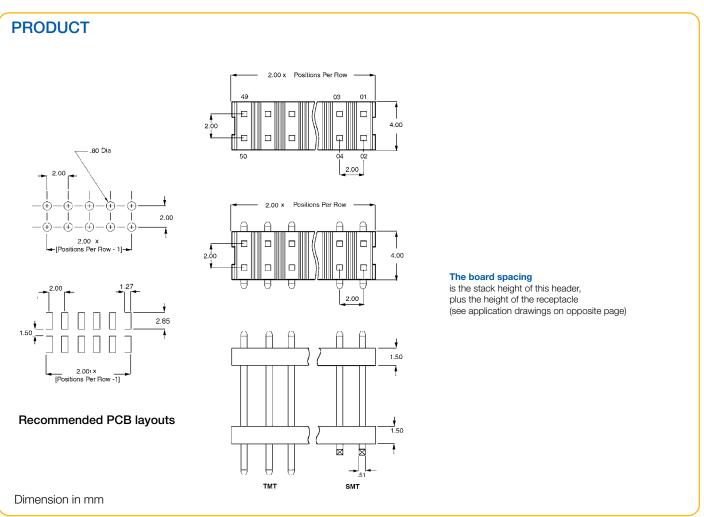






Minitek™ Unshrouded Stacking Headers





- ▶ Two housing heights: 2.30 mm, 4.50 mm
- Dual-beam contact design for highly reliable electrical performancets

TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
 Beryllium-copper 63453
- Plating: Gold over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 20 mΩ
 - 25 m Ω 63453
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 25

100 - 63453

► Contact retention to housing: 2.20 N (227 gf) min.

4.90 N (500 gf) min. - 63453

▶ Insertion force per contact: 1.80 N (184 gf) max.

1.95 N (200 gf) - 63453

■ Withdrawal force per contact: 0.20 N (20 gf) min.

OPERATING TEMPERATURE RANGE

▶ -55°C to +125°C

PACKAGING

■ Standard: TMT in Tubes

SMT in Tape-and-reel

■ Optional: Tubes (SMT)

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

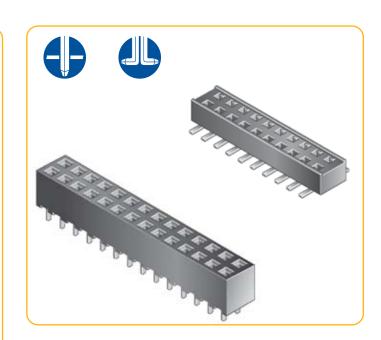
REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: by 5-digit base part number
- ▶ Product specification: GS-12-008

DPS-12-011 - for 63453

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



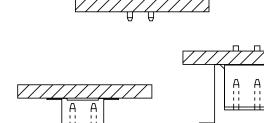
MATING DATA

Minitek™ Unshrouded headers
 Minitek™ Shrouded headers
 52, 54, 58
 64, 66

INSERTION DEPTH

- 4.50 mm height: 3.00 mm min. to 4.30 mm max. [provides .381 mm wipe]
- 2.30 mm height Top Entry: 1.30 mm min. to 2.20 mm max. [provides .381 mm wipe]
- 2.30 mm height Bottom Entry:1.40 mm min. to
 2.20 mm max. [provides .381 mm wipe]
 plus board thickness

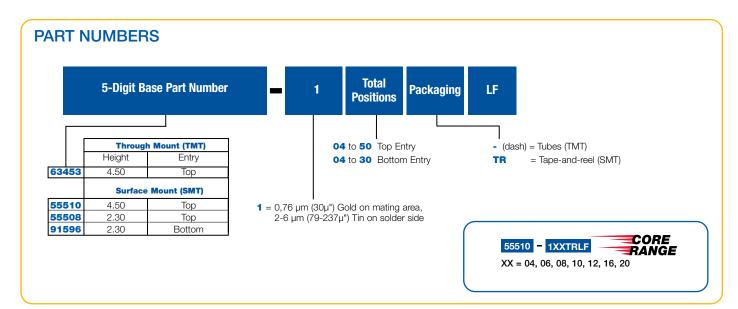
Receptacle A A Insertion

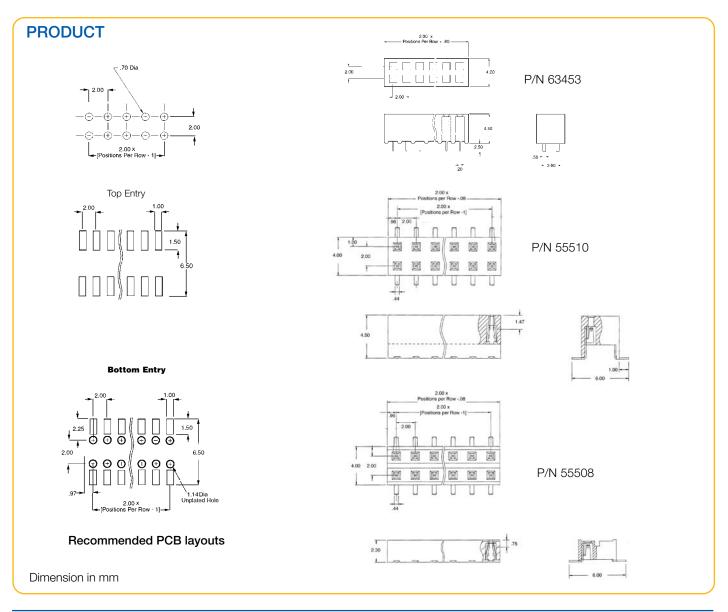






Minitek™ Vertical Receptacles





Early entry, dual-beam contacts provide long wiping action for reliable electrical contact

TECHNICAL DATA

PHYSICAL

- Housing: Black thermoplastic
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- ▶ Plating: Gold or tin-lead over 1.27 μm (50 μ") nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 25 mΩ
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

- Mating cycles (durability): 50
- Insertion force per contact: 6.41 N (650 gf) max.
- Withdrawal force per contact: 0.49 N (50 gf) min.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

Bags

PROCESSING INFORMATION

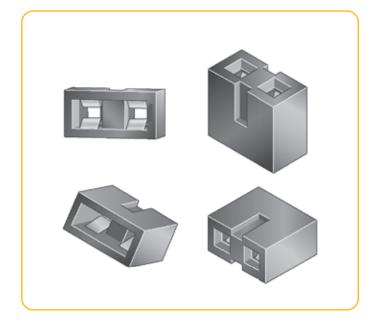
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: by 5-digit base part number
- ► Product specification: DPS-12-012

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



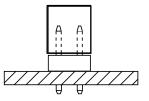
MATING DATA

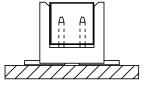
- Minitek™ Unshrouded headers
- 52, 54, 58
- Minitek[™] Shrouded headers

64, 66

INSERTION DEPTH

2.24 mm min. [provides .381 mm wipe]

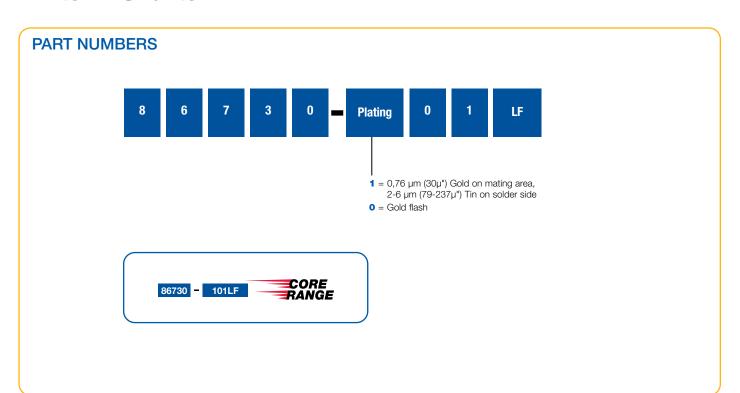




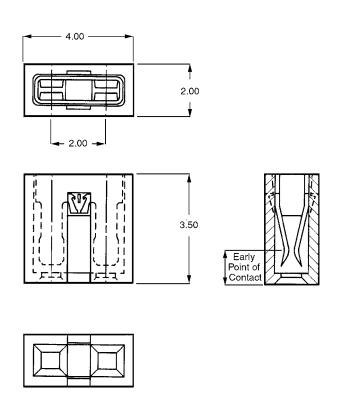




Minitek™ Shunts



PRODUCT



Dimension in mm

- ▲ 4-wall design prevents mis-mating
- Selective plating
- Co-planarity 0.1 (SMT)

TECHNICAL DATA

PHYSICAL

- Housing: High temperature, cream-colored thermoplastic
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- ► Plating: Gold/GXT over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

■ Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

- Standard: TMT in Tubes (04 to 06 pos. packed in box) SMT in Tape-and-reel
- Optional: SMT in Tubes (04 and 06 in box)

PROCESSING INFORMATION

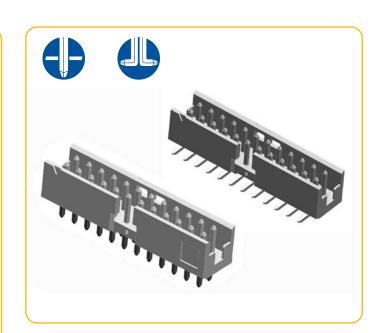
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 98414 or 98424
- ▶ Product specification: DPS-12-011 and GS-12-163
- ► Tape and Reel packaging data TA-884

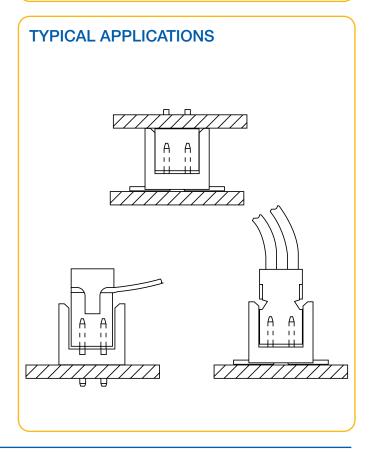
RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

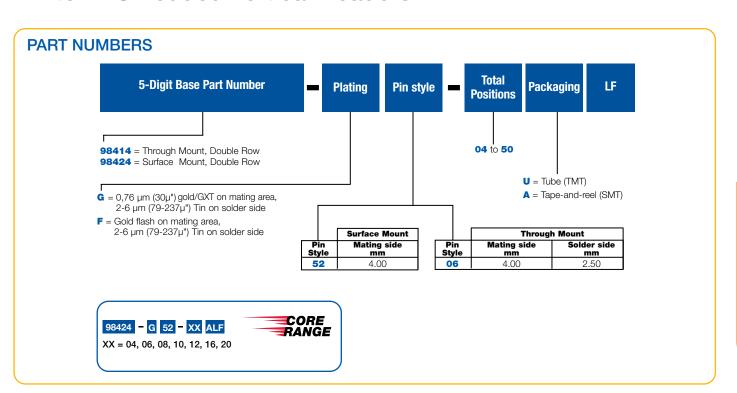
Minitek™ ctw contacts and housings	72
Minitek™ Vertical receptacles	60
Minitek™ Shunts	62
Minitek™ IDC receptacles	76
Minitek™ Active latch	74

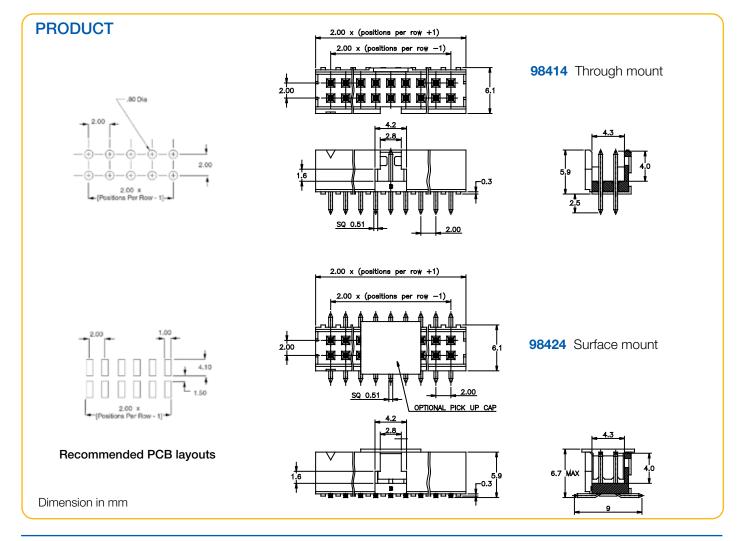






Minitek[™] Shrouded Vertical Headers





- ▲ 4-wall design prevents mis-mating
- Selective plating

TECHNICAL DATA

PHYSICAL

- ▶ Housing: High temperature, cream-colored thermoplastic
- Flammability rating: UL 94 V-0
- ▶ Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

Standard: Tubes (04 pos. packed in box)

PROCESSING INFORMATION

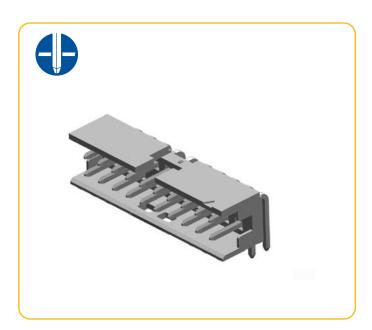
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- ► Product drawing: 98464
- ▶ Product specification: DPS-12-011 and GS-12-163

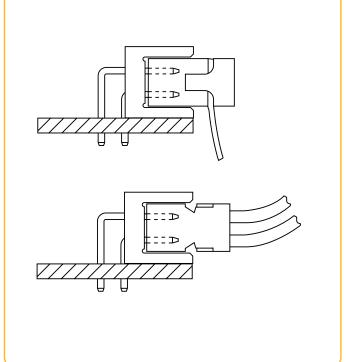
RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ Minitek [™] ctw contacts and housings	72
Minitek™ Vertical receptacles	60
Minitek™ Shunts	62
Minitek™ IDC receptacles	76
Minitek™ Active latch	74

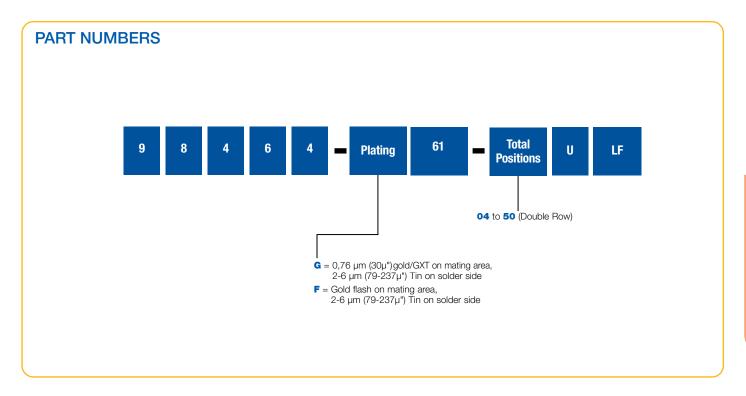


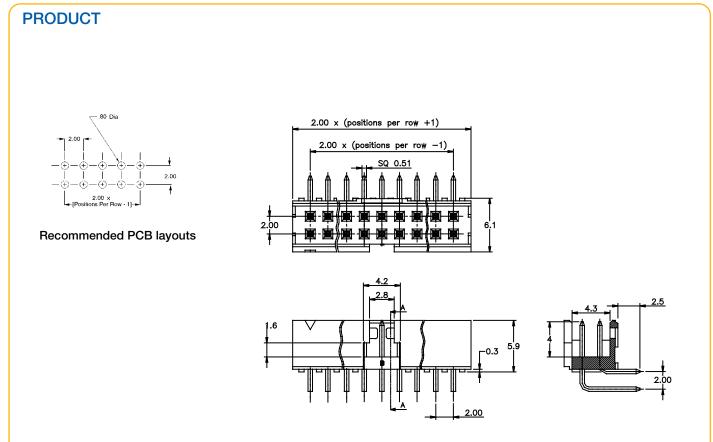


Dimension in mm



Minitek™ Shrouded Right Angle Headers





www.fci.com/basics

TECHNICAL DATA

PHYSICAL

- ► Housing: High-temperature, black thermoplastic
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- ► Plating: Gold/GXT over 1.27 μm (50μ") nickel

■ ELECTRICAL PERFORMANCE



- Current rating: 3 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

- ► Tubes (04 pos. packed in box)
- Tape on reel with pick up cap

PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

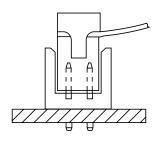
REFERENCE INFORMATION

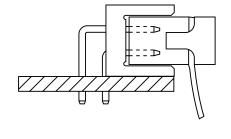
- File no. E66906
- File no. LR46923
- ▶ Product drawing: by 8-digit base part number
- ► Product specification: DPS-12-011 and GS-12-163
- Application specification: TA-895
- Reflow prpfile: TA-842



MATING DATA

Minitek™ ctw contacts and housings	72
Minitek™ Vertical receptacles	60
Minitek™ Shunts	62
Minitek™ IDC receptacles	76
Minitek™ Active latch	74

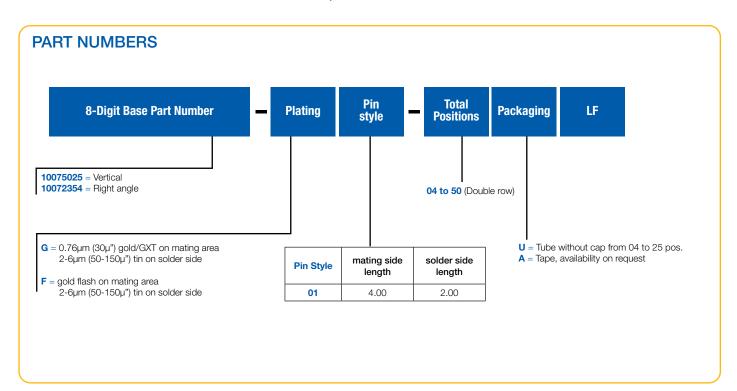


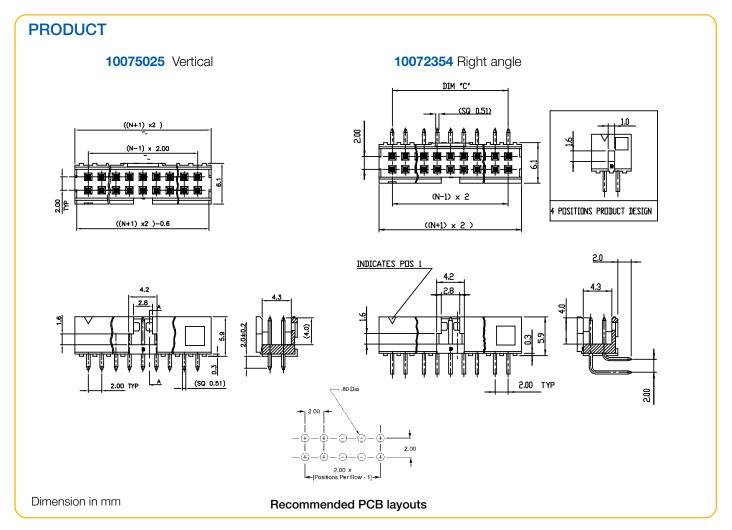






Minitek™ Shrouded Headers, Pin-in-Paste





Shrouded Eject Latch Headers

FEATURES

- Secure latching of cable connector
- Easy ejection when required
- ▶ Works with IDC connectors with or without strain relief
- Low profile

TECHNICAL DATA

PHYSICAL

- ► Housing: Body, cream-colored LCP, Latch black PA
- ► Flammability rating: UL 94 V-0
- ► Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27 μm (50 μ") nickel

■ ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 25 mΩ max.
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

Latching retention force: 30 N min.

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

Standard: Tubes

PROCESSING INFORMATION

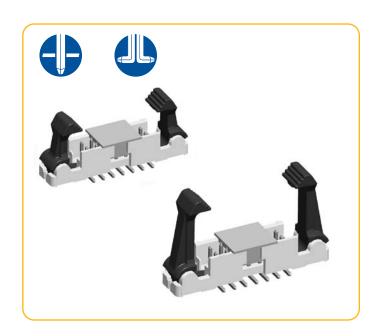
Compatible with wave, vapor-phase, and IR reflow soldering processes

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 8-digit part number
- ► Product specification: GS-12-469

RoHs INFORMATION

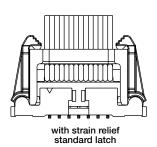
■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC

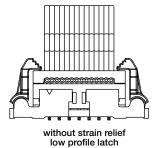


MATING DATA

Minitek™ IDC receptacles

76

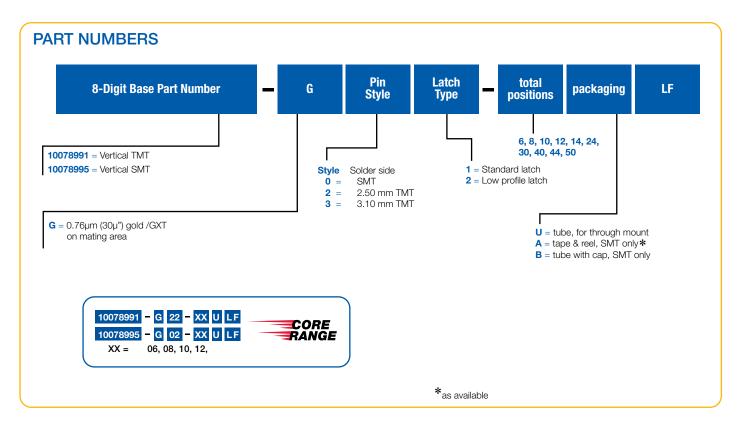


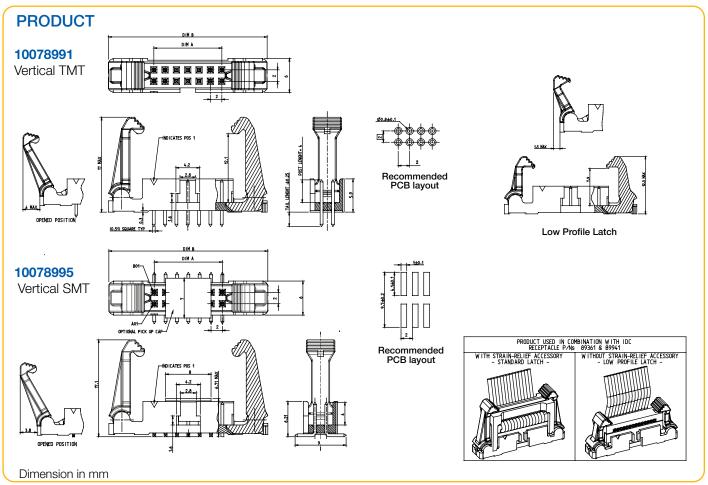






Minitek™ Shrouded Eject Latch Headers





Housings and Contacts

FEATURES

- Dual-beam contact design for highly reliable electrical performance
- Latching key assures proper alignment and friction retention

TECHNICAL DATA

PHYSICAL

- ▶ Housing: Black thermoplastic
- ► Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 2 A continuous
- Insulation resistance: 1x 10⁵ MΩ min.
- Contact resistance: 20 mΩ
- Dielectric withstanding voltage: 650 V
- Voltage rating: 200 V.

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100
- ► Contact retention to housing: 7.83 N (800 gf) min.
- Mating force per contact: 1.77 N (180 gf) max.
- ► Unmating force per contact: 0.20 N (20gf) min.

OPERATING TEMPERATURE RANGE

► -40°C to +125°C

PACKAGING

- Reels Contacts
- Bags Housings

REFERENCE INFORMATION

File no. E66906
File no. LR46923

► Product drawing: 77138 or 77139 – Contact

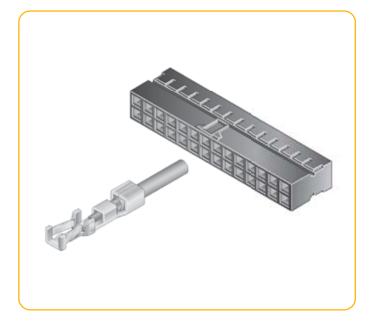
69307, 90311- Housing

▶ Product specification: 110-036

Application specification: 100-006, TA-959

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

Minitek™ Unshrouded headers

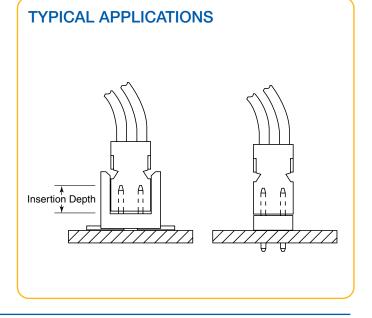
52, 54, 58

Minitek™ Shrouded headers

64, 66

INSERTION DEPTH

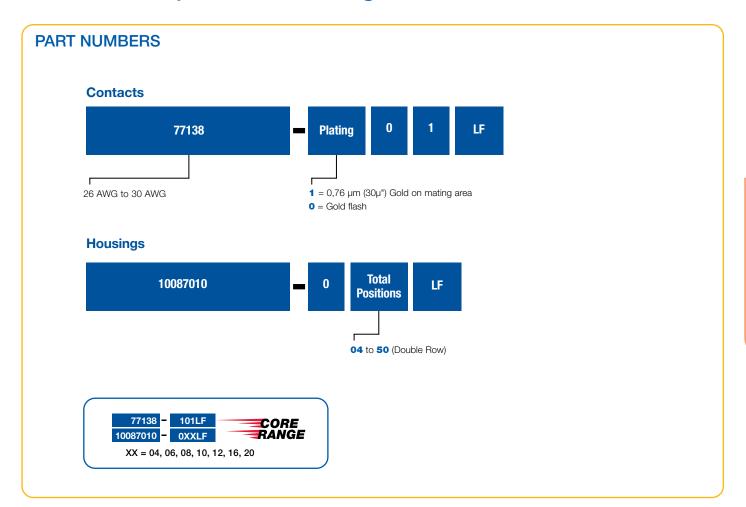
- 2.40 mm min. to 3.30 mm max. [provides .381 mm wipe]
- 3.63 mm min. to 4.00 mm max. [provides .381 mm wipe in housing]

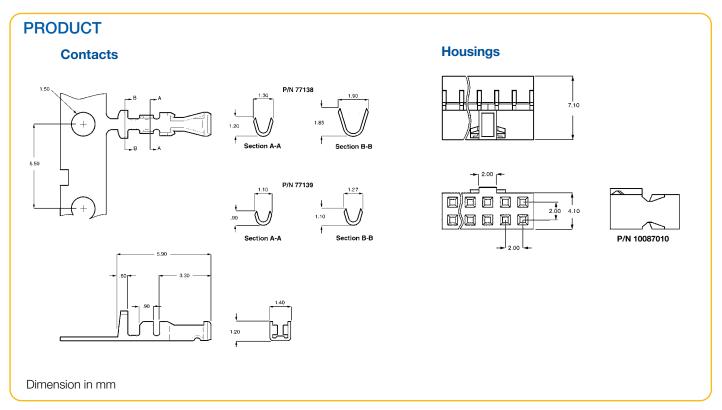






Minitek™ Crimp-to-wire Housings and Contacts





Housings, Active latch

FEATURES

- Latching retention 15/25 N (depending on size) due to latch alone
- Latches with audible click
- Mates with standard Minitek headers
- Latch can be released and parts unmated

TECHNICAL DATA

PHYSICAL

- Housing: Polyamide, black
- ► Flammability rating: UL 94 V-0

ELECTRICAL PERFORMANCE

- Insulation resistance: 1x 10⁵ MΩ min.
- Dielectric withstanding voltage: 500 V

MECHANICAL PERFORMANCE

- Latching retention force: 15 N min. (for 2x3 and 2x4 pos)
- Latching retention force: 25 N min. (for 2x5 and 2x25 pos)

OPERATING TEMPERATURE RANGE

► -55°C to +125°C

PACKAGING

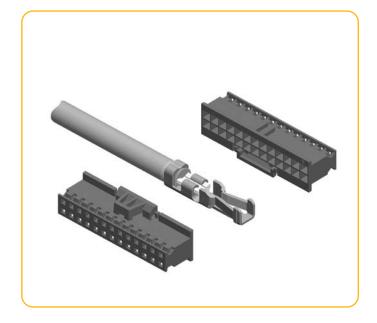
Standard: Plastic bags

REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 8-digit part number
- ► Product specification: GS-12-415

RoHs INFORMATION

This product is RoHs compatible according to the European Union Directive 2002/95/IEC

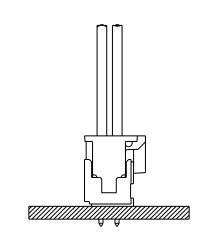


MATING DATA

- Minitek[™] Shrouded headers
- Minitek™ CTW contacts

64, 66, 68 72, 74

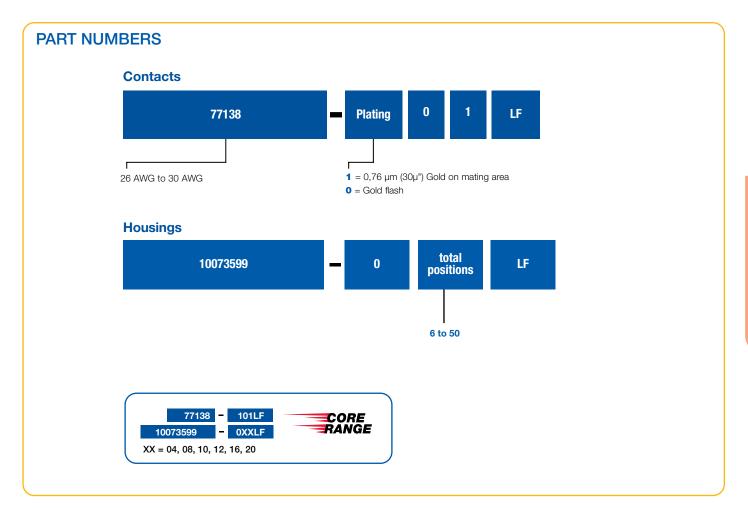
TYPICAL APPLICATIONS

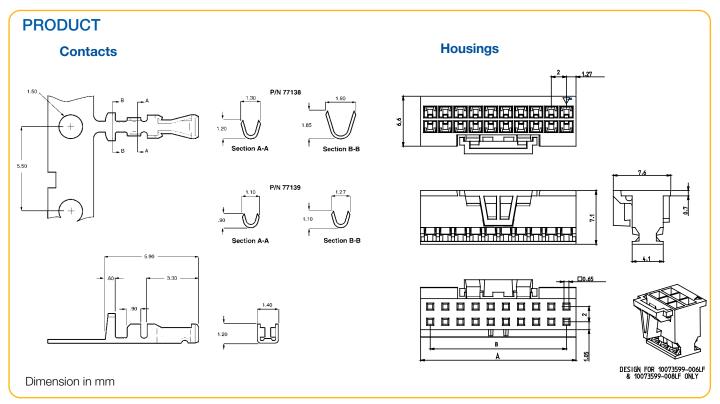






Minitek™ Crimp-to-wire Housings, Active latch





FEATURES

- Early entry, single-beam contacts provide long wiping action for reliable electrical contact
- Center key polarization and friction latch options

TECHNICAL DATA

PHYSICAL

- ► Housing: Black thermoplastic
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold over 1.27 μm (50 μ") nickel



ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- ▶ Insulation resistance: $1x 10^5 MΩ$ min.
- Contact resistance: 30 mΩ
- Dielectric withstanding voltage: 650 V

MECHANICAL PERFORMANCE

► Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

► -40°C to +105°C

PACKAGING

Tubes

REFERENCE INFORMATION

File no. E66906

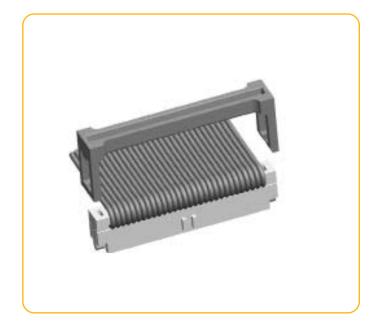
File no. LR46923

Product drawing: 89947 or 89361

► Product specification: BUS-12-115

RoHs INFORMATION

■ This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

Minitek™ Unshrouded headers

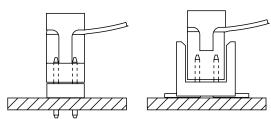
52, 54, 58 64, 66

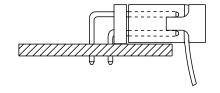
Minitek™ Shrouded headers

INSERTION DEPTH

2.55 mm min. to 4.57 mm max. [provides .381 mm wipe]

TYPICAL APPLICATIONS

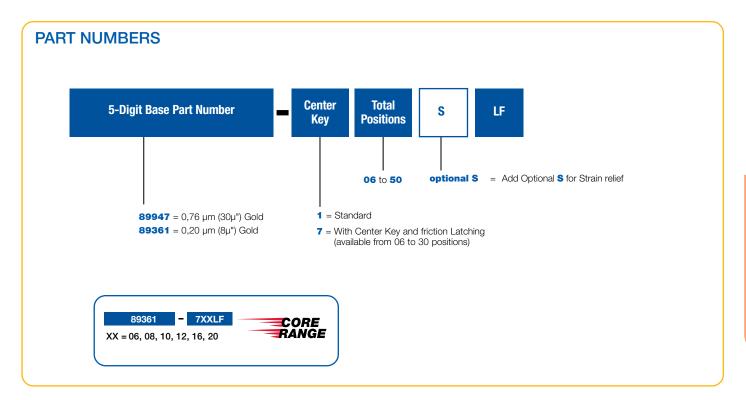




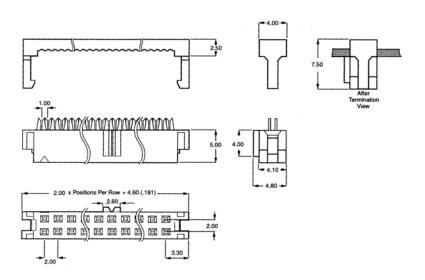




Minitek™ IDC Receptacle







Dimension in mm

MORE OPTIONS

If you need someting more than the standard parts in this catalog, Basics+ has many more options to help you in your design process. Here are just some examples.

■ Locating pins on SMT headers



▶ Polarized (missing) positions



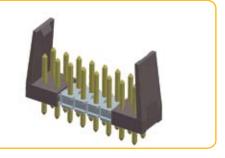
Kinked legs



Press-fit pins



Add-on latches for headers







Wide body headers Crimp-to-wire pin **Printed housings** Additional plating options Pin-in-paste headers

Visit: www.fci.com/basicsdesign to specify your design need

Application Equipment



DUBOX™ CRIMP-TO-WIRE CONTACTS

Contact Description	Wire size	Hand Tool	Mini-Applicator (right to left feeding)	Mini-Applicator (left to right feeding)	Repair Tool
Dubox	AWG 20-22	RCY21235	RCY20027	RCY20017	HT 272
Dubox	AWG 22-24	RCY21234	RCY20008	RCY20029	HT 272
Dubox	AWG 26-30	RCY21234	RCY20008	RCY20029	HT 272
Small insulation Dubox	AWG 28-32	-	RCY20028		HT 272

PV™ CRIMP-TO-WIRE CONTACTS

Contact Description	Wire size	Hand Tool	Mini-Applicator	Repair Tool
Standard Mini-PV	AWG 18-20	HT-0073	133867-104	HT-0080
Standard Mini-PV	AWG 22-26	HT-0095	133867-105	HT-0080
Standard Mini-PV	AWG 28-32	HT-0095	133867-106	HT-0080
Standard Mini-PV	AWG 34-36	HT-0112	133867-108	HT-0080
Small Insulation PV	AWG 22-26	HT-207	-	HT-0080
Small Insulation PV	AWG 28-32	HT-217	-	HT-0080

MINITEK™ CRIMP-TO-WIRE CONTACTS

Contact Description	Wire size	Hand Tool	Mini-Applicator	Repair Tool
Minitek	AWG 26-30	RCY21151	155250-101	HT-0080
Minitek	AWG 32-36	RCY21152	155250-102	HT-0080

www.fci.com/basics

80



Application Equipment



BergStik® AND Bergstrip®

- Manual cutting tool: HT 320
- Automatic cutting machine for Bergstrip: BSS-300

Quickie® IDC

- Manual flat cable cutter: HT 209
- Quickie assembly hand tool: HT 210
- Many other variations of manual, semi- automatic and automatic tools available upon request.

Minitek® IDC

Manual flat cable cutter: HT 209

Hand Press: QP-104

Where to get your tooling

These toolings and more detailed advice, pricing, availability etc. are available through your distributor or from the following suppliers:

Americas

Phone: 1-800-843-6911

E-mail: doug.sheaffer@fciconnect.com

Europe

Föhrenbach Application Tooling N.V.

Phone: +32 3 216 19 98

Email: application.tooling@foehrenbach.be

Asia

Phone: +65 549 6666

E-mail: fcising_sales@fciconnect.com

BASE PART NUMBER	PAGE	BASE PART NUMBER	PAGE
47437	39	76385	31
47439	39	77138	73, 75
47457	39	77311	9, 13
47564	39	77313	9, 13
47565	39	77315	15
47566	39	77317	15
48047	39	78207	37
48048	39	78208	37
48276	39	86730	63
52601	45	87606	23
54XXX	19	89361	
55508	61	89882	29
55510	61	89883	29
57102	53	89891	23
57202	53	89898	27
59112	59	89947	————— 77
59132	59	91596	61
59202	59	91601	27
63453	61	91614	27
65039	41	91615	27
65043	41	91618	27
65239	35	95278	9
65240	35	98414	65
65846	41	98423	 55
67996	11	98424	65
68000	11	98464	67
68015	17	10056844	45
68020	17	10056845	45
68786	21	10072353	57
69145	21	10073599	75
69167	37	10075024	57
69168	37	10075025	69
69830	51	10075324	69
71600	49	10078991	71
71607	29	10078995	71
71609	29	10087010	73
71918	47		
71920	23		
71922	47		
71991	25		
75867	43		
75869	43		
75915	23		
76341	25		
76342	25		
76347	33		
76357	33		
76382	31		
76383	31		
76384	31		



_

For more information about e-catalog or FCI sales offices, headquarters, agents and local distributors, visit www.fciconnect.com

