



Basics⁺



Modular & Flexible
Product Range



In Stock



Short Lead
Time



Customized
Solutions

Keeping Connections Simple

Our FCI Basics Products provide a modular interconnection platform of high quality and innovative solutions. Select products under our Basics+ Program for faster delivery to reduce your Time to Market.

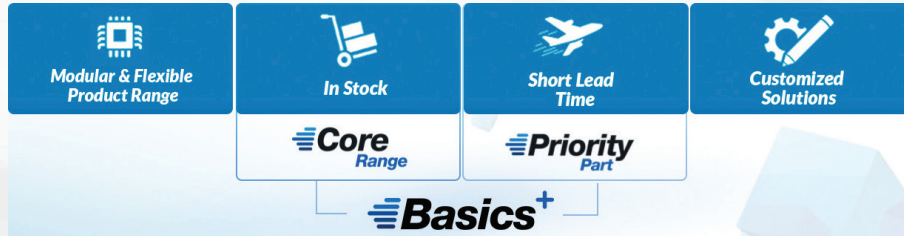
www.amphenol-icc.com/basics

Useful Resources



Catalog

See the range of products under the Basics+ program. Look out for these logos:



Proposition Page

www.amphenol-icc.com/basics provides all you need to know about Amphenol ICC Basics. With access to PDF catalog, product documents, technical support, sample order, stock check and product configurator, you can easily find a product that suits your needs.



Product Documents

Product datasheets, product drawings, specifications, application notes, packaging drawings and other documents are available on www.amphenol-icc.com.



Technical Support

Get answers to your technical questions instantaneously. Connect to our technical support team via the live chat window on our website.



Samples

Order your samples by choosing part number(s) from the product page or look for specific parts using the search box. Add to shopping cart and check out.



Stock Check & Lead Time

Access stocking information such as packaging quantity, minimum order quantity, lead time and stock details. All commercial information will be at your fingertips upon successful account registration.



Product Configurator

Configure your connector designs online or send your special designs and requirements to our 24hrs/5days technical support team.

Keeping Connections Simple

BASICS – History

The brand BASICS was established at Amphenol ICC in early 2000s defining a product portfolio of Wire-to-Board and Board-to-Board connectors to be sold through distribution. The main competitive advantage was the quick availability of products and samples through distribution and the competitive offer:

- 48 hours delivery for samples everywhere in Europe
- Immediate delivery of Core Range item
- 2 weeks lead time for Priority Parts item
- Dedicated microsite with all technical document available online
- Special packaging

The Basics+ program was mainly driven in Europe and is well-known through the distribution community as the standard of Service Excellence for connector manufacturers.

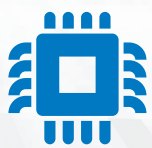
BASICS – What it is today

Over the years, BASICS evolved from a commercial program into a Amphenol ICC business unit that provides a modular interconnection platform of high quality and innovative solutions.

Our solutions include:

- Signal & Mid Power Wire to Board
- Board to Board
- External Input/ Output
- FFC/FPC
- Backplane

Whatever you are designing, select BASICS to meet your connection needs.



Modular & Flexible Product Range

With millions of configurable options, we have the product to meet your performance and quality requirements.



In Stock

Our distribution partners are stocking the most popular connectors for your designs, with over 6,000 products ready to ship in 48 hours.



Short Lead Time

From your design to mass production, we have over 700 products to ship in 2 weeks or less.









Customized Solutions

Partner with us for your customized connection needs. With advanced engineering and fast prototyping, we can provide a solution proposal within in a week or less.

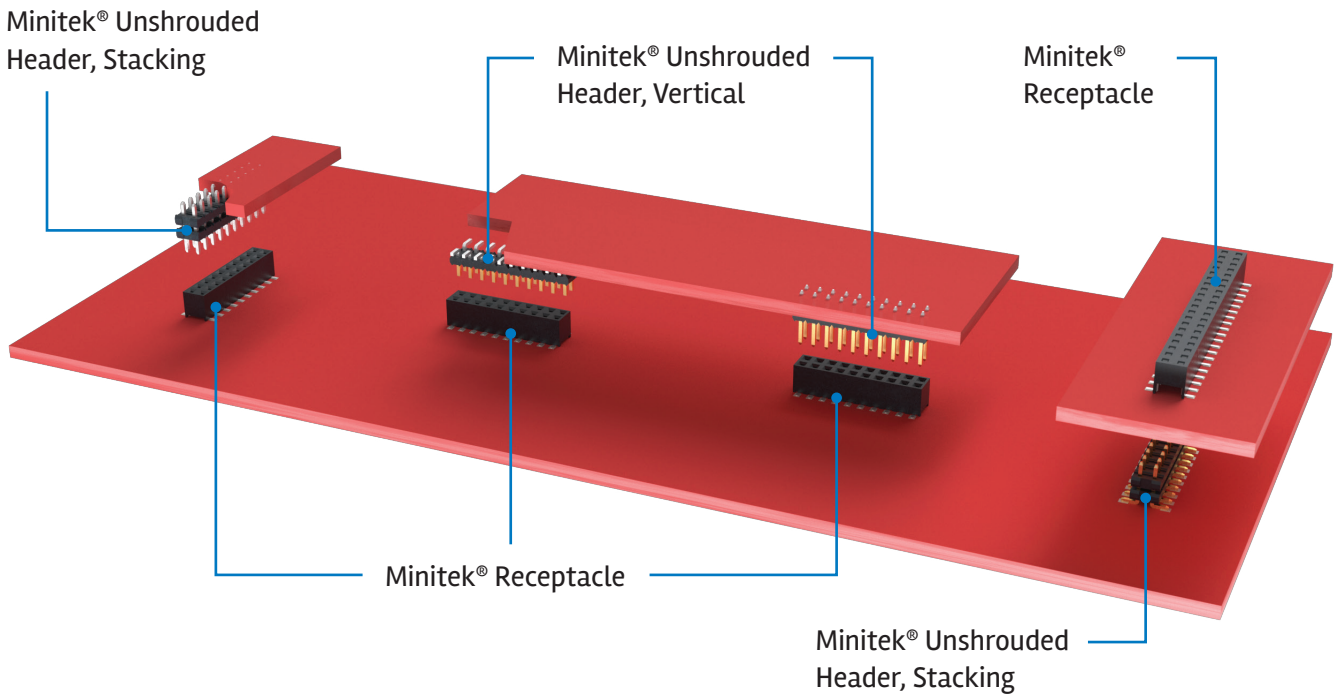
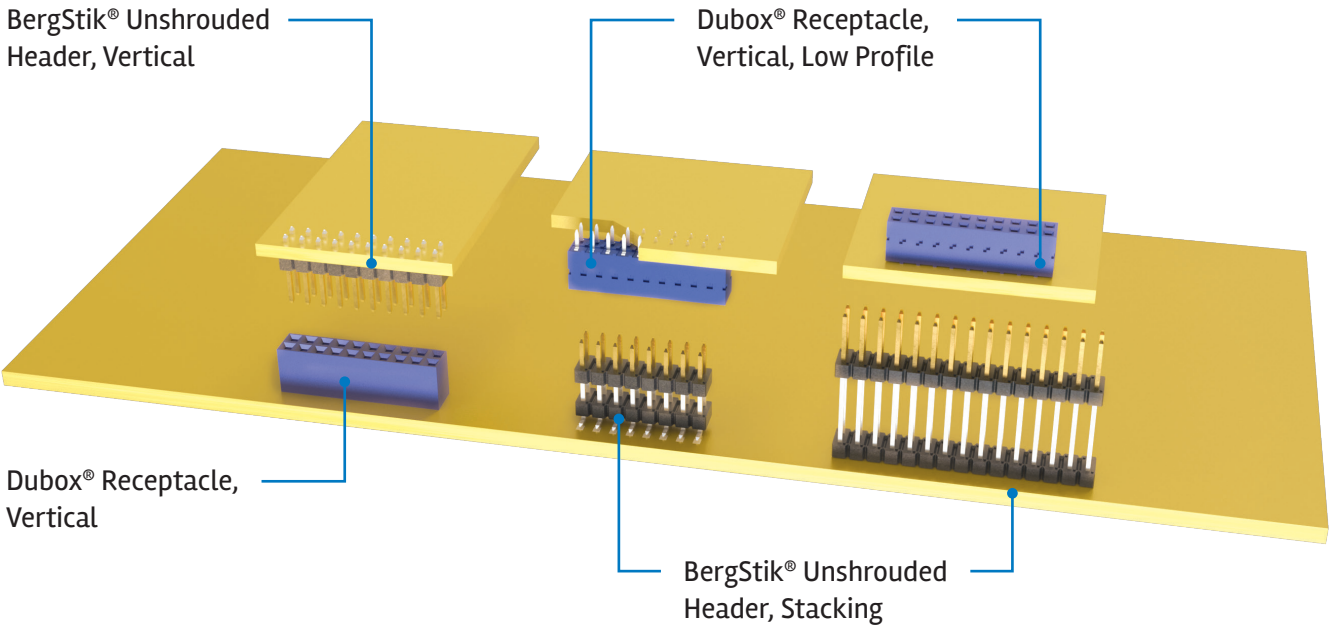
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LEGEND

 = 4.20mm	 = 3.00mm	 = 2.54mm	 = 2.00mm	 = 1.27mm	 = 0.40 to 1.00mm
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Parallel

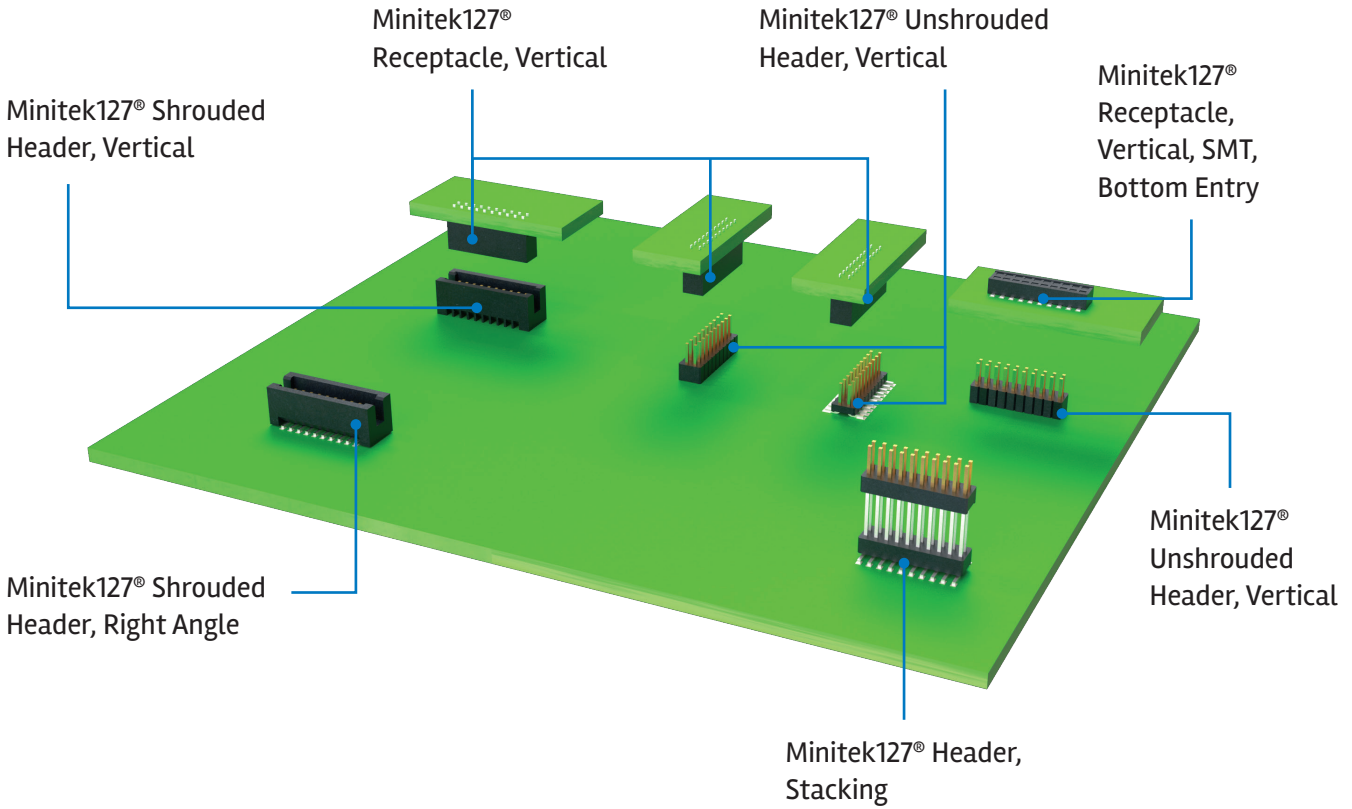


Board-To-Board Applications

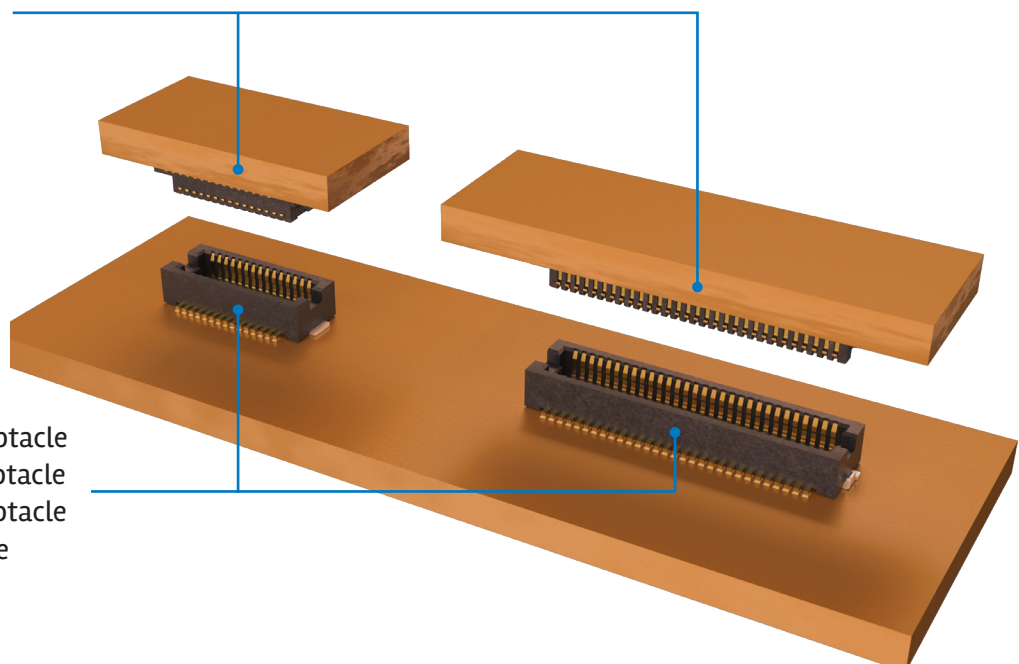
LEGEND



Parallel



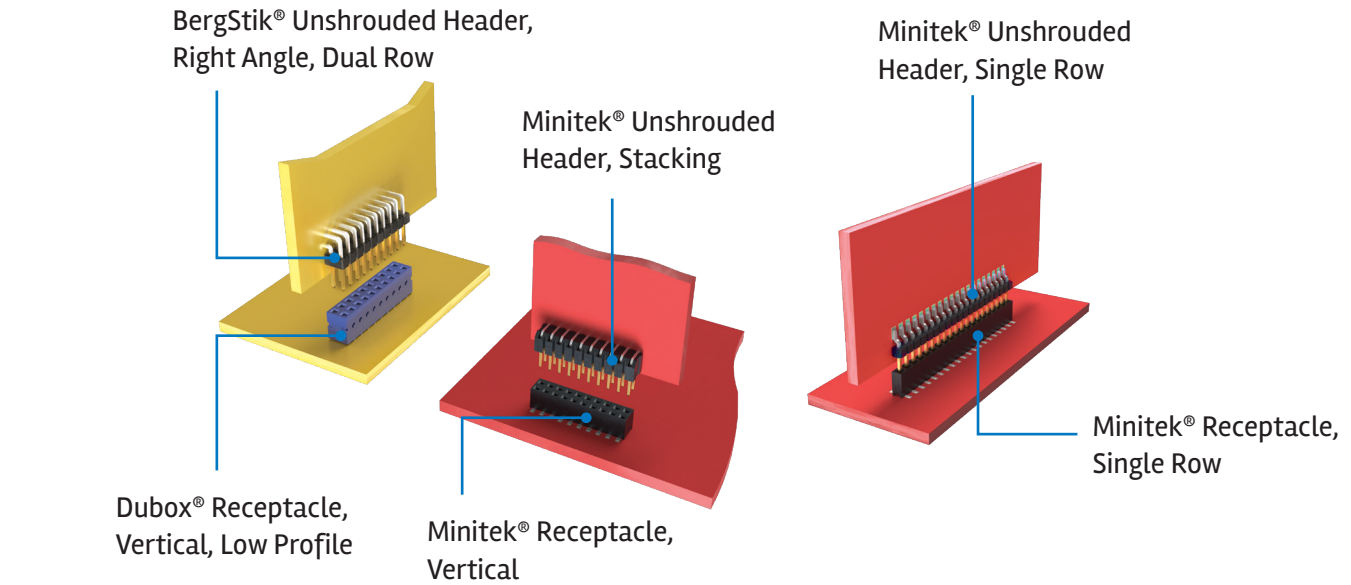
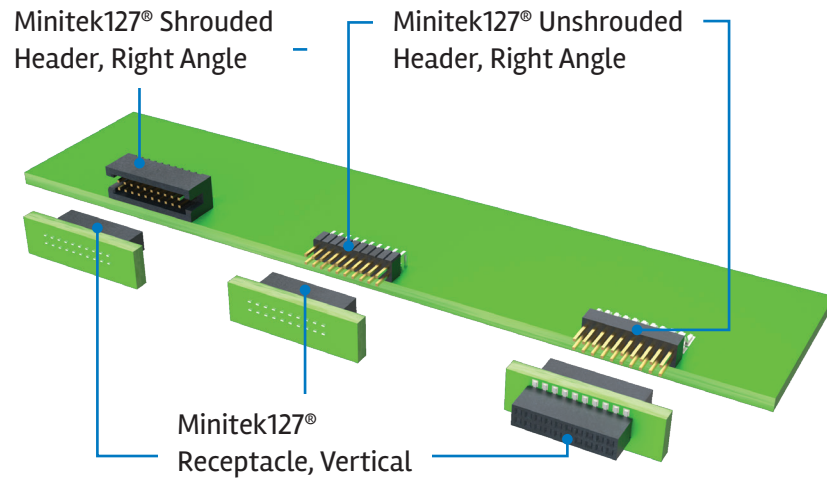
- BergStak[®] 0.40mm Plug
- BergStak[®] 0.50mm Plug
- BergStak[®] 0.80mm Plug
- BTFW 1.00mm Plug



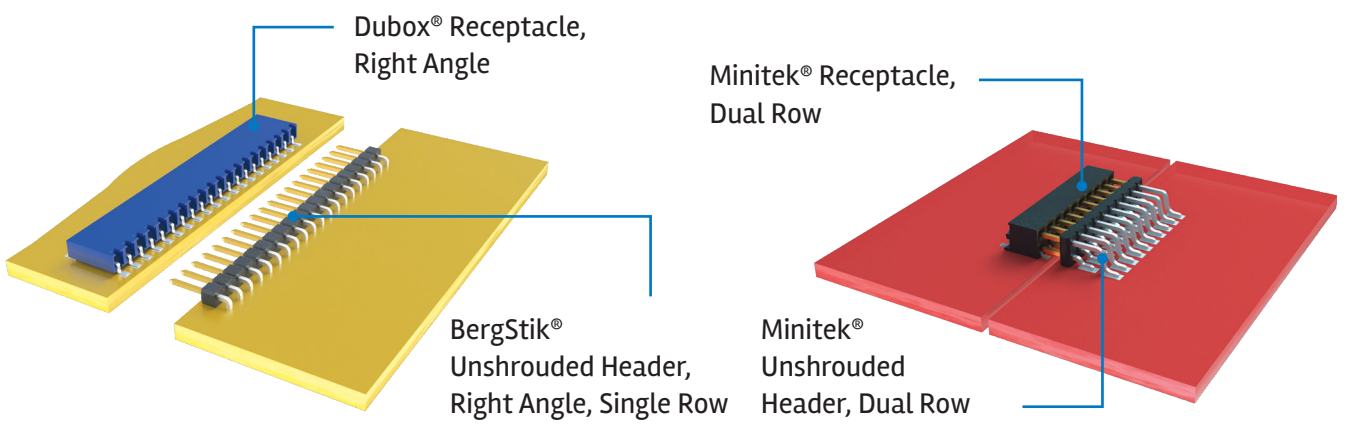
LEGEND

= 4.20mm
 = 3.00mm
 = 2.54mm
 = 2.00mm
 = 1.27mm
 = 0.40 to 1.00mm

Right Angle



Coplanar

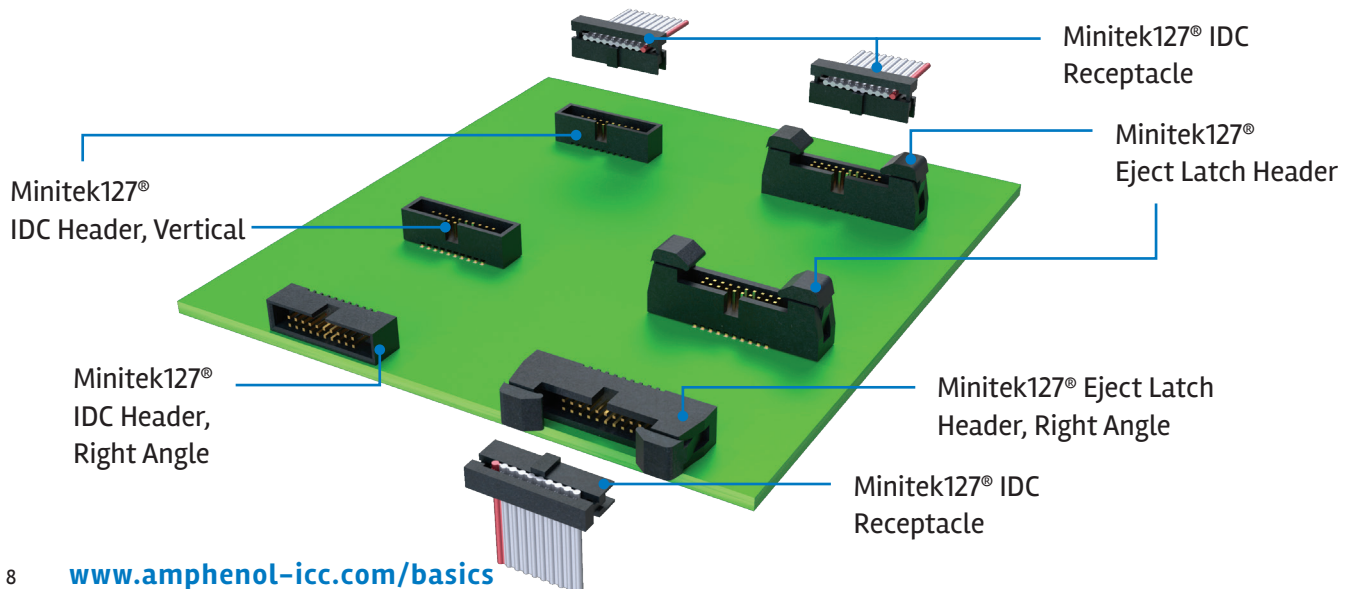
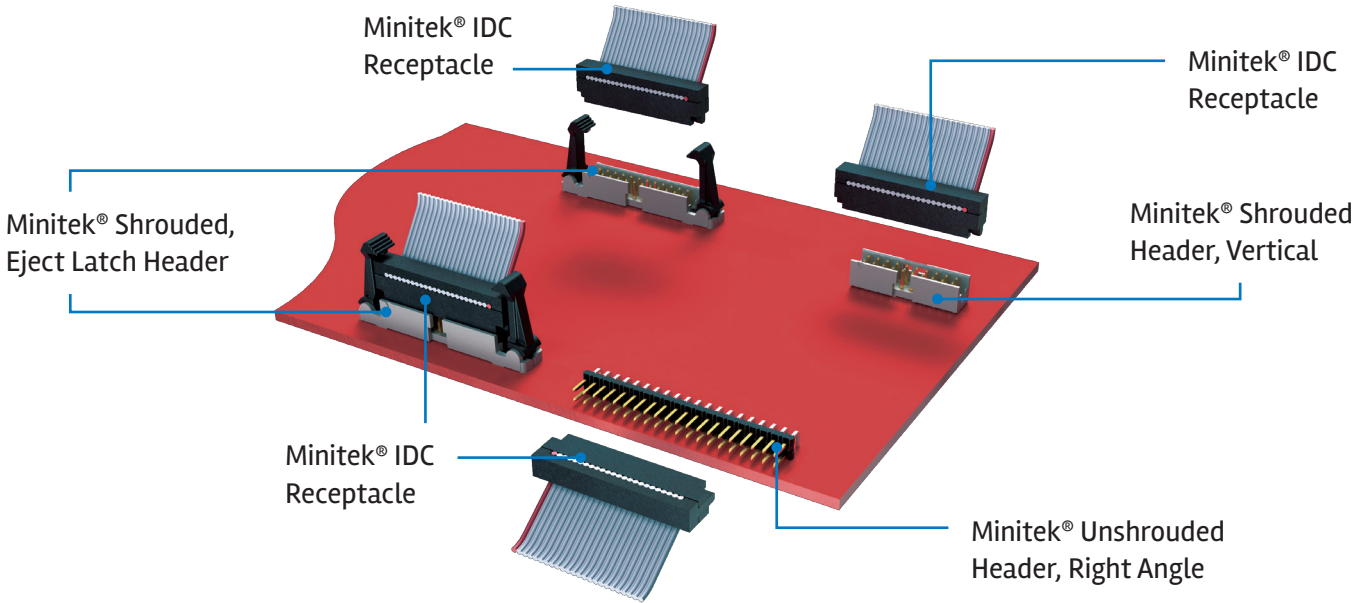
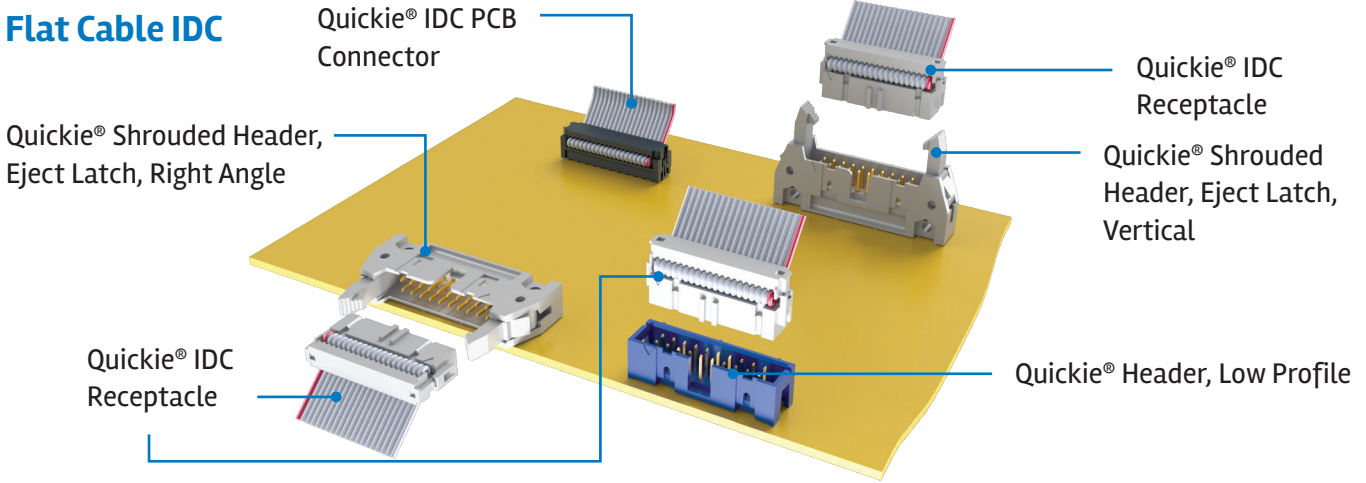


Wire-To-Board Applications

LEGEND



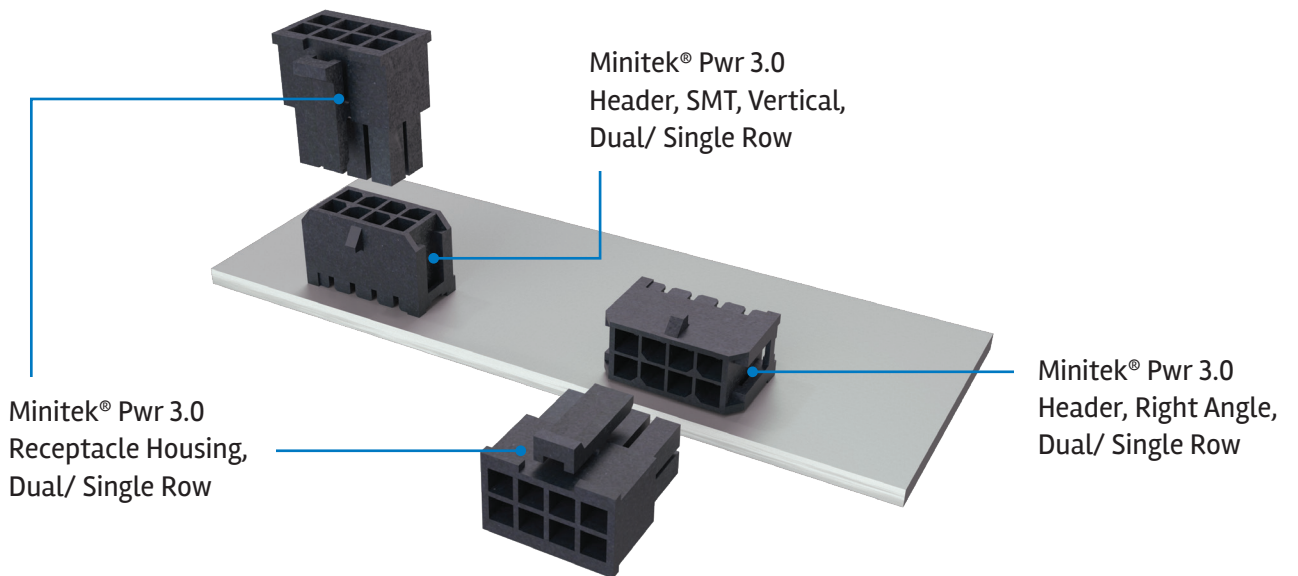
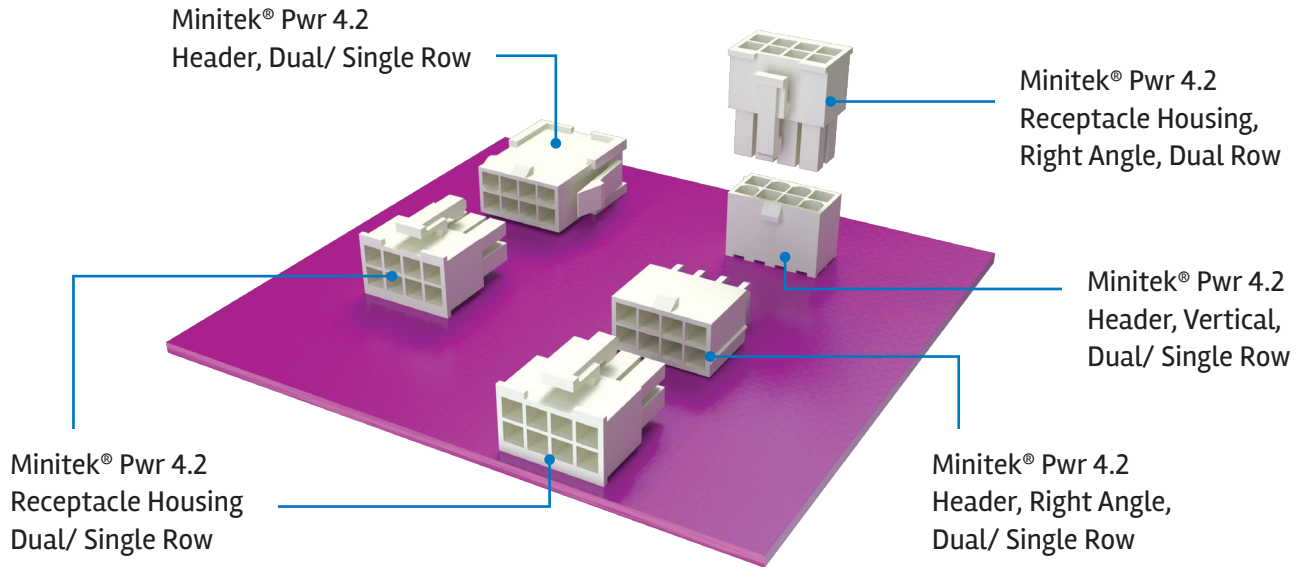
Flat Cable IDC



LEGEND

 = 4.20mm	 = 3.00mm	 = 2.54mm	 = 2.00mm	 = 1.27mm	 = 0.40 to 1.00mm
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Discrete Wire



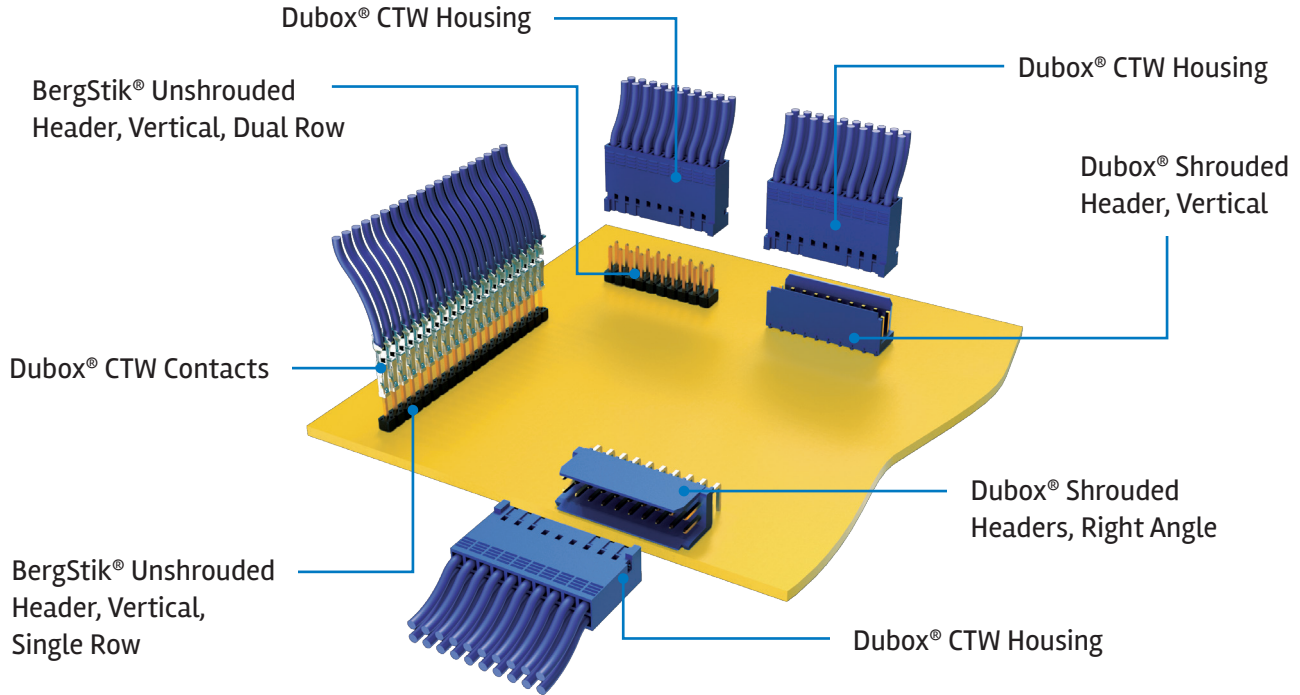
Wire-To-Board Applications

LEGEND

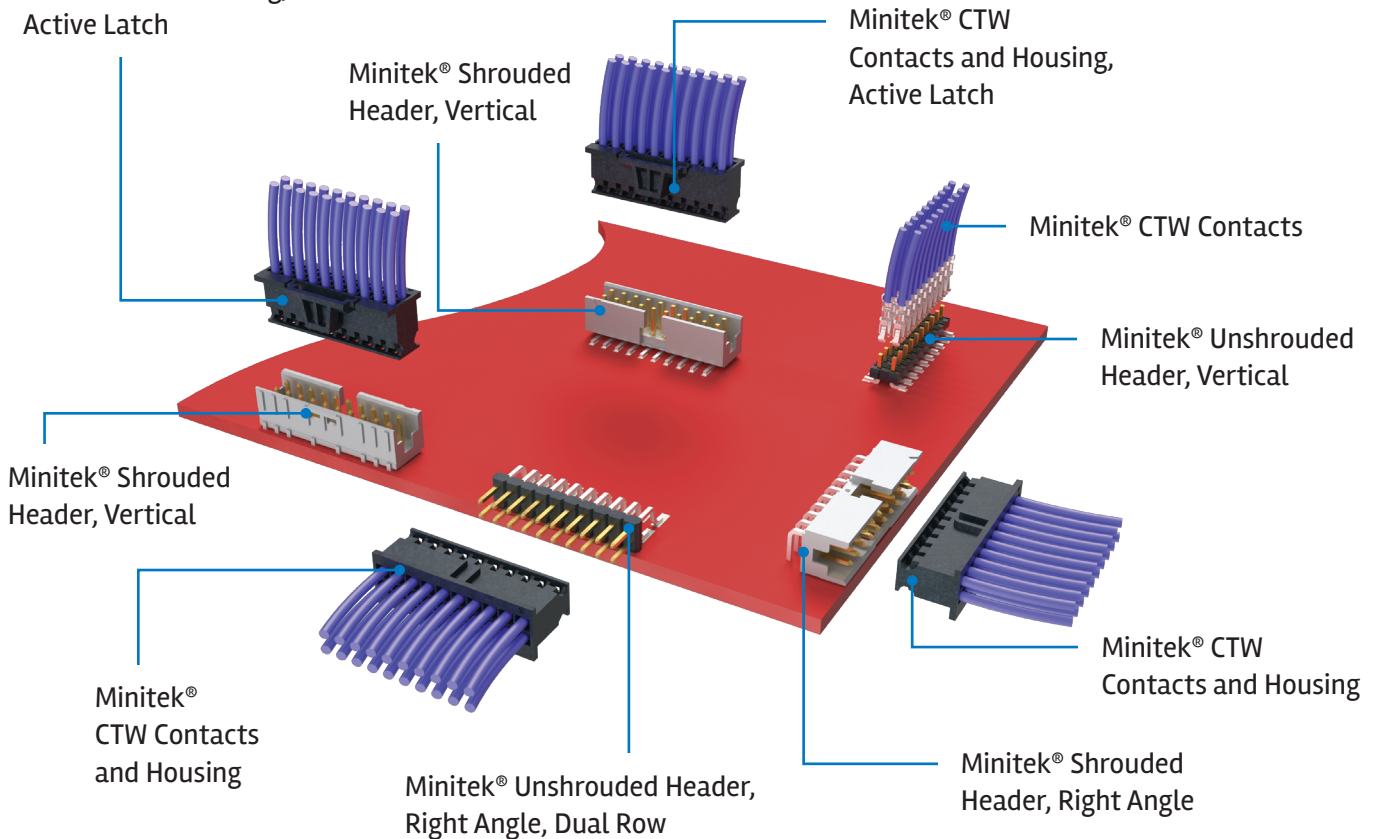


* CTW = Crimp-to-Wire

Discrete Wire



Minitek® CTW Contacts and Housing, Active Latch



Pitch (mm)	Product Name	Type		AWG	Application		
					Board-to-Board	Wire-to-Board	
5.00	Griplet®	Griplet® Miniature IDC		30 to 20 AWG		●	
4.20	Minitek® Pwr			28 to 16 AWG		●	
3.00				30 to 16 AWG		●	
2.54	BergStik®	Headers	Unshrouded, Vertical, Standard	20 to 18 AWG	●	●	
			Unshrouded, Vertical, Special		●	●	
			Right Angle Headers		●	●	
			Stacking Headers		●	●	
	Dubox®	Headers	Shrouded, Vertical		30 to 20 AWG		●
			Receptacles	Vertical, Standard		●	
		Vertical, Low Profile, TH		●			
		Vertical, Low Profile, SMT		●			
		Horizontal		●			
		Crimp-to-Wire	Contacts			●	
	Housing			●			
	Shunts				●		
		Quickie®	Headers	Shrouded, Low Profile	30 to 20 AWG		●
	Shrouded, Eject Latch					●	
	Low Profile, PIP					●	
	IDC	Receptacles				●	
Headers						●	
	PV®	Headers	Shrouded		30 to 20 AWG		●
Crimp-to-Wire			Contacts			●	
			Housing			●	
2.00	Minitek®	Headers	Unshrouded, Vertical	30 to 26 AWG	●	●	
			Shrouded, Vertical		●	●	
			Unshrouded, PIP		●	●	
			Shrouded, PIP		●	●	
			Shrouded, Eject Latch		●	●	
	Receptacles	Right Angle & Vertical		●			
	Crimp-to-Wire	Contacts & Housing, Active Latch			●		
	IDC	Receptacles			●		
1.27	Minitek127®	Headers	Shrouded	30 AWG	●	●	
			Unshrouded		●		
			Eject Latch			●	
		Receptacles	Vertical		●		
IDC	Receptacles			●			
1.25	1.25mm pitch Wire-to-Board	Headers	Right Angle & Vertical			●	
			Crimp-to-Wire	Contacts		●	
				Housing		●	
1.20	1.20mm pitch Wire-to-Board	Headers	Right Angle		●	●	
			Receptacles	Vertical		●	●
				Crimp-to-Wire	Contacts		●
			Housing			●	
0.80	BergStak®	Mezzanine			●		
0.50		Mezzanine			●		

Pitch (mm)	Product Name	Base Part Number	Application			
			Height (mm)	FPC Thickness	Contact Location	ZIF/LIF
1.00	HFW-R	HFW	1.9	0.3	Bottom, Top	
	HFW-S	HFW	5.3	0.3	Vertical	
	SFW-R	SFW	2.7	0.3	Bottom, Top	Slider
	SFW-S	SFW	5.3	0.3	Vertical	Slider
0.50	SFV-R	SFV	1.8	0.3	Bottom, Top	Slider
	SFV-S	62674	4.1	0.3	Vertical	Slider
	VLL	10051922	1.2	0.3	Bottom	Back Side Flip

Application Matrix

Product Family		USB	D-Subminiature	Modular Jack	Metral®	Millipacs®	DIN
Connector Interface		Type C	D-Sub	RJ45	Futurebus+	2mm Hard Metric	DIN 41612
Speed Performance		up to 10Gb/s	-	-	-	up to 10Gb/s	
Pitch		-	Depending on the version	2.54 mm	2.00mm	2.00mm	2.54mm
Position (pole number)		-	4 to 50 Pos.	4 to 10 Pos.	4 and 5 row versions	5 and 8 row versions	32 to 96 Pos.
Max Rating	Amp	5 Amps	10 to 40 Amps	3 Amps	1 to 40 Amps	1.5 Amps	2 Amps
	Voltage	100V	200V	150V	250V	750V	1000V
Operating Temperature		-55°C to +85°C (Depending on the version)	-55°C to +155°C (Depending on the version)	-65°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
Housing material		High Temperature thermoplastic					
Configurations / Terminations		Vertical, Right Angle, SMT	Vertical, Right Angle TH, SMT, Shrouded, Unshrouded Single row, Double Row IDC, CTW	Vertical, Right Angle TH, SMT, Shrouded, Unshrouded Single row, Double Row IDC, CTW	Press-fit, SMT, Pin-in-Paste	Vertical, Right Angle, Pin-in-Paste, Power & Hybrid, Cable, Compact PCI, Accessories	Press-fit, SMT, Signal Connectors, IDC Cables, Accessories

Griplet® Miniature IDC Connector

Wire-To-Board Connector

Amphenol
ICC

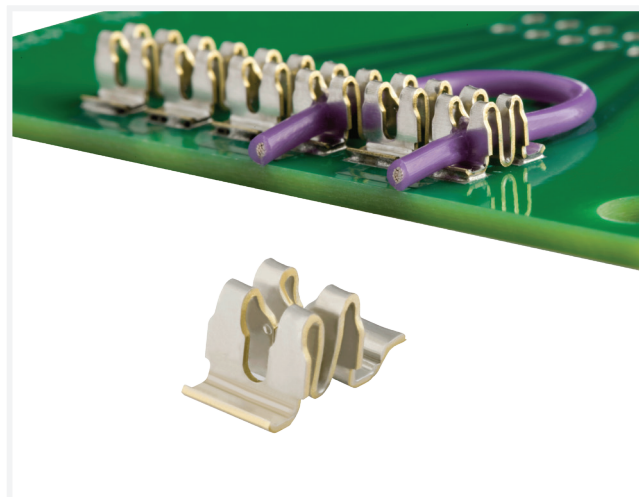
RELIABLE CONNECTION AND EASE OF INSTALLATION FOR WIRE-TO-BOARD TERMINATIONS

Amphenol ICC's Griplet® Miniature IDC Connector offers a robust solution for miniature IDC Wire-To-Board connections. Each connector comes in 5mm pitch, has a 3.80mm profile and 4mm width. Its low profile and compact design makes Griplet® an ideal connector where space is tight and ease of installation is important.

- Four points of wire contact plus strain relief ensures highly reliable connection
- Wire applied and insulated directly to a PCB to maximise cost efficiency
- Multiple wire sizes from 30 to 20 AWG

FEATURES

- Accommodates multiple wire sizes from 30 to 20AWG
- Four points of wire contact plus strain relief
- Accommodates multiple wire size
- Break-off carrier strip
- Post applied insulative housings
- Multiple Terminal Delivery Options:
 - Singulated in bags
 - On Reel/ Continuous strip
 - Stitched on pitch within disposable Pick & Place carrier



TARGET MARKETS



BENEFITS

- Comprehensive solution for all application needs
- Ensures highly reliable connection
- Enables harsh and industrial market applications with direct connection between individual wires and PCB
- Reduced total applied cost compared to solder or crimp processes
- 90° bend allows easy break away and removal
- Custom-made housing for automatic Pick & Place
- Manual application or Vibratory Bowl application
- Automated application
- Customizable pitch

▶ Griplet® Miniature IDC Connector

TECHNICAL INFORMATION

MATERIAL

- Contact: Copper Alloy
- Plating: Pre-plated lead-free Tin over Nickel

MECHANICAL PERFORMANCE

- Repairability: 3

APPROVALS AND CERTIFICATIONS

- UL E66906

PACKAGING

- Loose piece
- Terminals on Reel
- Pick & Place Carrier

ENVIRONMENTAL

- Operating Temperature: -40°C to + 105°C

ELECTRICAL PERFORMANCE

- Operating Voltage Rating: 120V max., AC or DC
- Operating Current Rating: 1.5 to 8.5A max. (wire-dependent), 30°C max. temperature rise above ambient, no air-flow
- Wire Gauge: 32AWG to 20AWG

SPECIFICATIONS

- Product Specification: GS-12-1234

PART NUMBER SELECTOR

XXXXXXX
XXX
XX

BASE PART NUMBER — **PACKAGING** | **LEAD-FREE**

10127850
LF

Option	Quantity	Code
On Reel	7500	001LF
Singulated	1	101LF
With pick & place cap, in Tape/Reel	1900	101TRLF
Singulated	1900	001TRLF

SELECTED PART NUMBERS

Description	Part Numbers
Terminals on Reel	10127850-001LF
Insertion Tool	10131832

Minitek® Pwr 4.2 Connector System

Dual Row & Single Row

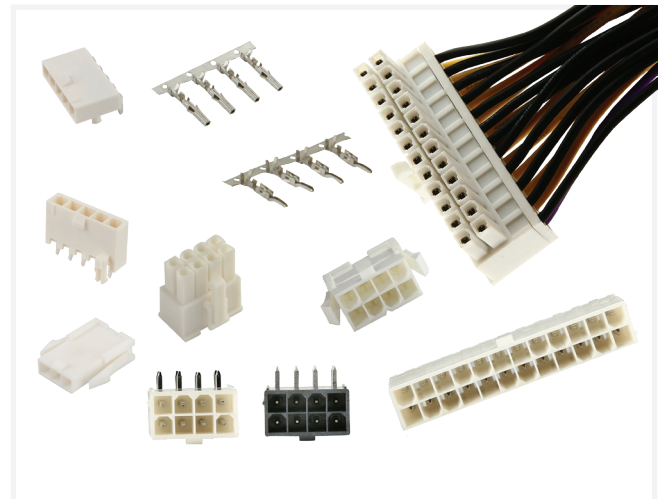
Amphenol
ICC

4.20mm

COMPACT, ROBUST AND VERSATILE

Minitek® Pwr 4.2mm is a flexible and comprehensive solution designed for power application with current rating up to 9A per circuit. It is available in 2 to 24 circuits for dual row and 3 to 5 circuits for single row.

- Solutions for Wire-to-Board, Wire-to-Wire and Wire-to-Panel applications
- Scoop proof housing prevents terminals from damage
- Polarized mating geometry to prevent mismatching
- Fully isolated terminal stop prevent terminals from damage
- Blind mating interface (BMI) option in vertical, through hole type for dual row. 14 positions available



TARGET MARKETS



FEATURES

- Low insertion force for installation of crimped terminal
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- Scoop-proof housings
- High retention force in housing
- Glow wire compliant option
- BMI option
- UL94V-0 flammability rated nylon material
- Patented right angle type receptacle
- RoHS compliant and lead-free

BENEFITS

- Easy to use
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismatching
- Ensures terminals and header pins are not damaged for angled mating
- Well secured terminals in housing
- Complies with International Standard IEC 60335-1 for household appliances
- Allows ± 2.54 mm gatherability for blind mating
- High flammability rating
- Ideal for cable routing within 1U or 2U equipment systems
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Board Connector: Brass with optional Tin and Gold Flash plating
- Housing: Nylon 66 & LCP, Natural & Black, UL94V-0
- Crimping Terminal: Brass/Phosphorus Bronze with optional Tin and Gold Flash plating

MECHANICAL PERFORMANCE

- Terminal Insertion Force: 14.7N max
- Terminal Withdrawal Force: 1N min.
- Durability: 30 mating cycles
- Wire Pullout Force: Refer to product specifications

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 10mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 600Vrms
- Current Rating: Up to 9A/contact
- Dielectric Withstand Voltage: 1500VAC
- Temperature Rise: 30°C max

PACKAGING

- PCB Header: Tray
- Crimping Housing: Bag
- Terminal: Reel

APPROVALS & CERTIFICATION

- Dual Row: UL E66906 & E467317
- Single Row: UL pending
- Glow Wire Ignition Temperature (GWIT) per IEC 60695-2-13
- Glow Wire Flammability Index (GWFI) per IEC 60695-2-12

SPECIFICATION

- Amphenol Product Specification: GS-12-1181 and GS-12-1377
- Amphenol Application Specification: GS-20-0401
- Amphenol Packaging Specification: GS-14-2362

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
*Includes 30°C terminal temperature rise at rated current

TOOLING INFORMATION

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-042LF

PART NUMBERS

Type	Description	Part Numbers
Dual Row	Right angle PCB header, through hole	10127819
	Vertical PCB header, through hole	10127820
	Right angle receptacle housing with cover	10122956
	Receptacle housing	10127815
	Panel mount header housing	10127816
	Vertical PCB header, through hole (BMI)	10138978
Single Row	Right angle PCB header, through hole	10136646
	Vertical PCB header, through hole	10136647
	Receptacle housing	10136644
	Panel mount header housing	10136645
Applicable for both types	Receptacle terminal (post-plated solution)	10127817
	Receptacle terminal (pre-plated solution)	10134170
	Header terminal	10127818

PART NUMBER SELECTOR

Dual Row, Right Angle PCB Header, Through Hole

XXXXXXX		XX	X	X	X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS	PLATING CODE	HOUSING COLOR	HOUSING MATERIAL	LOCATING PEG	LEAD-FREE	
Dual Row	10127819	2 pos 02	14 pos 14	Natural	Nylon 66	None	Blank	LF
		4 pos 04	16 pos 16	Black		Both pegs	P	
		6 pos 06	18 pos 18	Gold Flash 1 Tin 2	LCP			1
		8 pos 08	20 pos 20					
		10 pos 10	22 pos 22					2
		12 pos 12	24 pos 24					
				Nylon 66, Glow wire compatible				G

Dual Row, Vertical PCB Header, Through Hole

XXXXXXX		XX	X	X	X	X	X	XX
BASE PART NUMBER		TOTAL POSITIONS	MATERIAL CODE	PLATING CODE	GLOW WIRE	PEG	CAP	LEAD-FREE
Dual Row	10127820	2 pos 02	14 pos 14	Gold Flash 1	1	No Peg	Blank	LF
		4 pos 04	16 pos 16	Tin 2		2 Pegs	P	
		6 pos 06	18 pos 18	Non-compatible	Blank	N.A. for 2 pos		Blank
		8 pos 08	20 pos 20			PA66, Compatible	G	
		10 pos 10	22 pos 22	LCP, Compatible	L	With cap, Tape/Reel		L
		12 pos 12	24 pos 24	Brass 2				

Single Row, Right Angle PCB Header, Through Hole

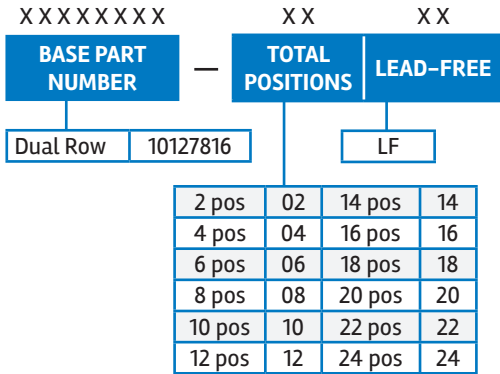
XXXXXXX		XX	X	X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS	PLATING CODE	HOUSING COLOR	HOUSING MATERIAL	LEAD-FREE	
Dual Row	10136646	3 pos 03	80µin Tin	Natural	1	LF	
		4 pos 04	Gold Flash	Black (N.A for C3U)	2		
		5 pos 05	15µin Au, Tin on Tails			PA66, C3U, Compatible	1
			30µin Au, Tin on Tails			PA66, CM3004, Non-compatible	2
						LCP, E130i, Compatible	3
						LCP, E471i, Non-compatible	4

Single Row, Vertical PCB Header, DIP, High Current Connector

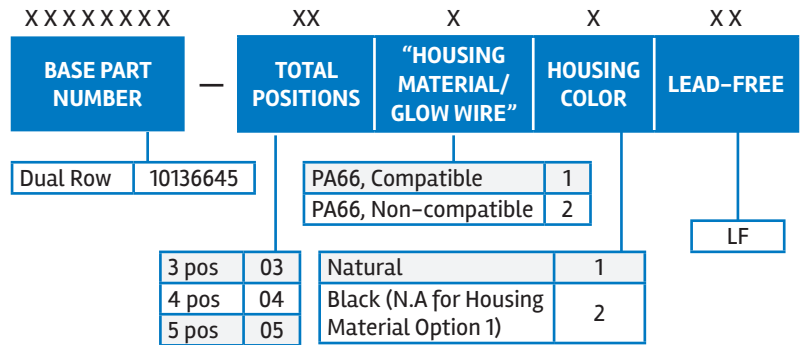
XXXXXXX		XX	X	X	X	X	XX
BASE PART NUMBER		TOTAL POSITIONS	PLATING CODE	HOUSING COLOR	HOUSING MATERIAL	LOCATING PEG	LEAD-FREE
Dual Row	10136647	3 pos 03	Tin	Natural	1	1	LF
		4 pos 04	Gold Flash	Black (N.A for Housing Material Option 1)	2	2	
		5 pos 05	15µin Au, Tin on Tails			3	With Posts 1 Without Posts 2
			30µin Au, Tin on Tails			4	
						PA66, Compatible	1
						PA66, Non-compatible	2
						LCP, Compatible	3
						LCP, Non-compatible	4

PART NUMBER SELECTOR

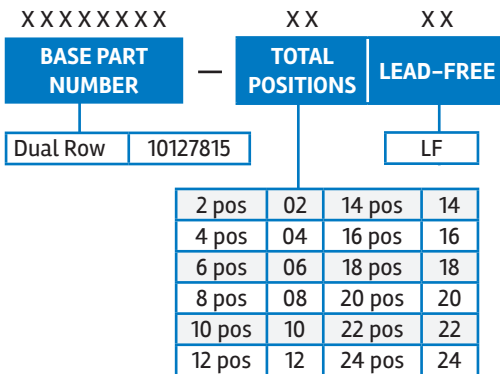
Dual Row, Header Housing



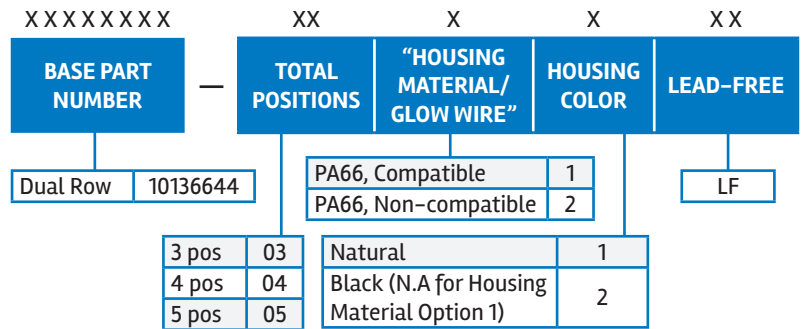
Single Row, Header Housing



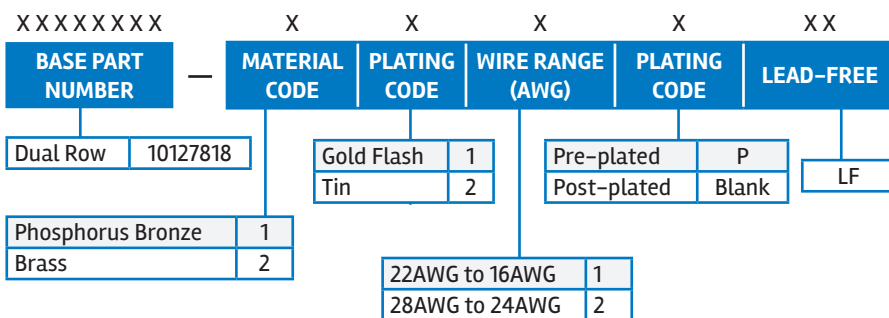
Dual Row, Receptacle Housing



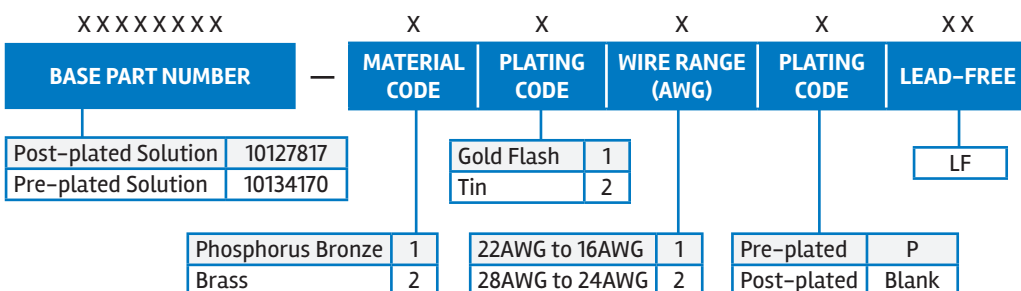
Single Row, Receptacle Housing



Header Terminal



Receptacle Terminal



Minitek® Pwr 3.0 Connector System

Dual Row & Single Row

Amphenol
ICC

3.00mm

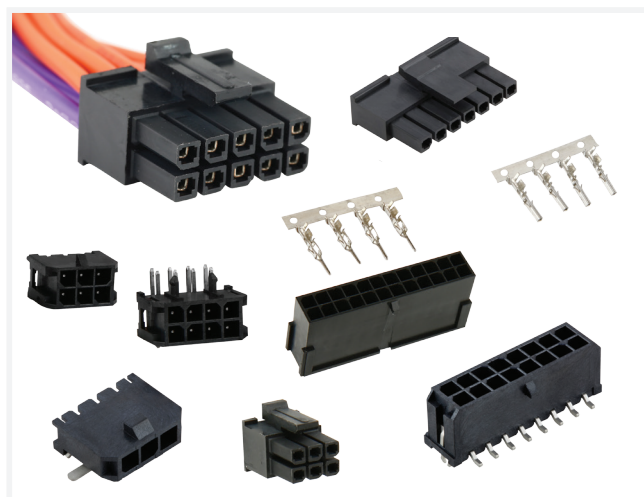
COMPACT, ROBUST AND VERSATILE

Minitek® Pwr 3.0 is a flexible and comprehensive solution designed for power application with current rating up to 5A per circuit. It is available in 2 to 24 circuits for dual row and 2 to 12 circuits for single row.

- Solutions for Wire-to-Board and Wire-to-Wire applications
- Low insertion force for installation of crimped terminal makes it easy to use
- Polarized mating geometry prevents mismatching
- Fully isolated terminals prevents terminals from damage
- Blind mating interface (BMI) option in vertical, through hole type for dual row. 8, 12 and 14 positions available

FEATURES

- Low insertion force for installation of crimped terminal
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- Scoop-proof housings
- High retention force in housing
- Glow wire compliant option
- BMI option
- UL94V-0 flammability rated LCP material
- RoHS compliant and lead-free



TARGET MARKETS



BENEFITS

- Easy to use
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismatching
- Ensures terminals and header pins are not damaged for angled mating
- Well secured terminals in housing
- Complies with International Standard IEC 60335-1 for household appliances
- Allows ± 2.54 mm gatherability for blind mating
- High flammability rating
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Board Connector: Brass with optional Tin and Gold Flash plating
- Housing: LCP & Nylon, Black, UL94 V-0
- Crimping Terminal: Phosphorus Bronze with optional Tin and Gold Flash plating

MECHANICAL PERFORMANCE

- Terminal Insertion Force: 4.5N max.
- Terminal Withdrawal Force: 2N min. before durability, 1.5N min. after durability
- Durability: 100 mating cycles
- Wire Pullout Force: Refer to product specifications

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 250Vrms
- Current Rating: 5A/contact. Refer to product specifications for higher current application
- Dielectric Withstand Voltage: 1000VAC
- Temperature Rise: 30°C max

PACKAGING

- PCB Header: Tray
- Crimping Housing: Bag
- Terminal: Reel

APPROVALS & CERTIFICATION

- Dual Row: UL E66906 & E467317
- Single Row: UL pending
- Glow Wire Ignition Temperature (GWIT) per IEC 60695-2-13
- Glow Wire Flammability Index (GWFI) per IEC 60695-2-12

SPECIFICATION

- Amphenol Product Specification: GS-12-1177 and GS-12-1374
- Amphenol Application Specification: GS-20-0399
- Amphenol Packaging Specification: GS-14-2359

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
*Includes 30°C terminal temperature rise at rated current

TOOLING INFORMATION

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-030LF

PART NUMBERS

Type	Description	Part Numbers
Dual Row	Right angle PCB header, through hole	10127720
	Vertical PCB header, through hole	10127721
	Receptacle housing	10127716
	Header housing	10127717
	Right angle PCB header, SMT	10137924
	Right angle PCB header, DIP boardlock	10137925
	Vertical PCB header, SMT	10137926
	Vertical PCB header, DIP boardlock	10137927
	Vertical PCB header, through hole (BMI)	10138980
Single Row	Right angle PCB header, through hole	10136654
	Right angle PCB header, SMT tail & hold down	10136655
	Vertical PCB Header, through hole	10136656
	Right angle PCB header, SMT tail & DIP boardlock	10137867
	Receptacle housing	10136653
Applicable for both types	Receptacle terminal (post-plated solution)	10127718
	Receptacle terminal (pre-plated solution)	10134160
	Header terminal	10127719

PART NUMBER SELECTOR

Dual Row, Right Angle PCB Header, Through Hole

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10127720		100u" Tin		1		LF
		Gold Flash		2		
2 pos	02	14 pos	14	Non-compatible		Blank
4 pos	04	16 pos	16	Compatible		G
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

Dual Row, Vertical PCB Header, Through Hole

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10127721		100u" Tin overall		1		LF
		Gold Flash overall		2		
		30u" Au on contact, Tin on solder tail		4		
2 pos	02	14 pos	14	Non-compatible		Blank
4 pos	04	16 pos	16	Compatible		G
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

Dual Row, Right Angle PCB Header, SMT with Hold Down

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10137924		LCP, Compatible		1		LF
		LCP, Non-compatible		2		
		Tin		1		
		Gold Flash		2		
		15µm Au, Tin on Tails		3		
		30µm Au, Tin on Tails		4		
2 pos	02	14 pos	14			
4 pos	04	16 pos	16			
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

Dual Row, Vertical PCB Header, SMT with Hold Down

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10137926		LCP, Compatible		1		LF
		LCP, Non-compatible		2		
		Tin		1		
		Gold Flash		2		
		15µm Au, Tin on Tails		3		
		30µm Au, Tin on Tails		4		
2 pos	02	14 pos	14			
4 pos	04	16 pos	16			
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

Dual Row, Right Angle PCB Header, SMT with DIP Hold Down

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10137925		LCP, Compatible		1		LF
		LCP, Non-compatible		2		
		Tin		1		
		Gold Flash		2		
		15µm Au, Tin on Tails		3		
		30µm Au, Tin on Tails		4		
2 pos	02	14 pos	14			
4 pos	04	16 pos	16			
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

Dual Row, Vertical PCB Header, SMT with DIP Hold Down

XXXXXXX XX X X XX

BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	GLOW WIRE	LEAD-FREE
Dual Row 10137927		LCP, E130i, Compatible		1		LF
		LCP, E471i, Non-compatible		2		
		Tin		1		
		Gold Flash		2		
		15µm Au, Tin on Tails		3		
		30µm Au, Tin on Tails		4		
2 pos	02	14 pos	14			
4 pos	04	16 pos	16			
6 pos	06	18 pos	18			
8 pos	08	20 pos	20			
10 pos	10	22 pos	22			
12 pos	12	24 pos	24			

PART NUMBER SELECTOR

Single Row, Right Angle PCB Header, Through Hole

XXXXXXX		XX		X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	HOUSING MATERIAL/ GLOW WIRE	LEAD-FREE	
Single Row		10136654				LF	
2 pos	02	8 pos	08	Tin	1	Compatible	
3 pos	03	9 pos	S1	Gold Flash	2	Non-compatible	
4 pos	04	10 pos	10	15µin Au, Tin on Tails	3		
5 pos	05	11 pos	11	30µin Au, Tin on Tails	4		
6 pos	06	12 pos	12				
7 pos	07						

Single Row, Vertical PCB Header, Through Hole

XXXXXXX		XX		X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	HOUSING MATERIAL/ GLOW WIRE	LEAD-FREE	
Single Row		10136656				LF	
2 pos	02	8 pos	08	Tin	1	Compatible	
3 pos	03	9 pos	S1	Gold Flash	2	Non-compatible	
4 pos	04	10 pos	10	15µin Au, Tin on Tails	3		
5 pos	05	11 pos	11	30µin Au, Tin on Tails	4		
6 pos	06	12 pos	12				
7 pos	07						

Single Row, Right Angle PCB Header, SMT with Hold Down

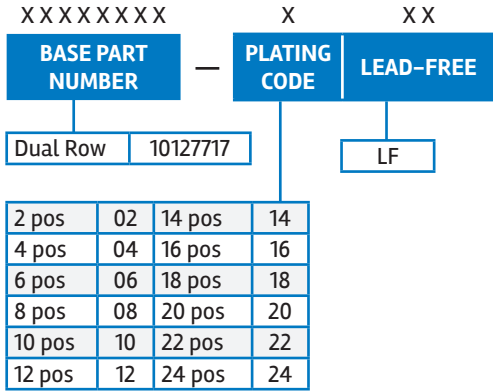
XXXXXXX		XX		X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	HOUSING MATERIAL/ GLOW WIRE	LEAD-FREE	
Single Row		10136655				LF	
2 pos	02	8 pos	08	Tin	1	Compatible	
3 pos	03	9 pos	S1	Gold Flash	2	Non-compatible	
4 pos	04	10 pos	10	15µin Au, Tin on Tails	3		
5 pos	05	11 pos	11	30µin Au, Tin on Tails	4		
6 pos	06	12 pos	12				
7 pos	07						

Single Row, Right Angle PCB Header, SMT with DIP Hold Down

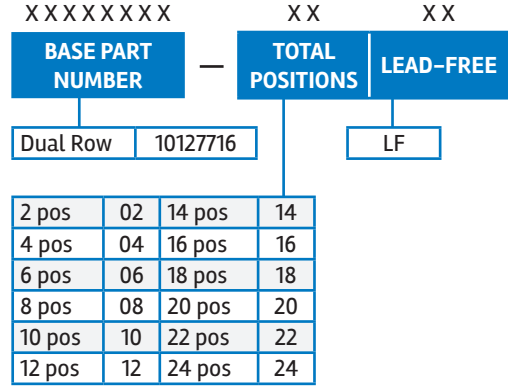
XXXXXXX		XX		X	X	XX	
BASE PART NUMBER		TOTAL POSITIONS		PLATING CODE	HOUSING MATERIAL/ GLOW WIRE	LEAD-FREE	
Single Row		10137867				LF	
2 pos	02	8 pos	08	Tin	1	Compatible	
3 pos	03	9 pos	S1	Gold Flash	2	Non-compatible	
4 pos	04	10 pos	10	15µin Au, Tin on Tails	3		
5 pos	05	11 pos	11	30µin Au, Tin on Tails	4		
6 pos	06	12 pos	12				
7 pos	07						

PART NUMBER SELECTOR

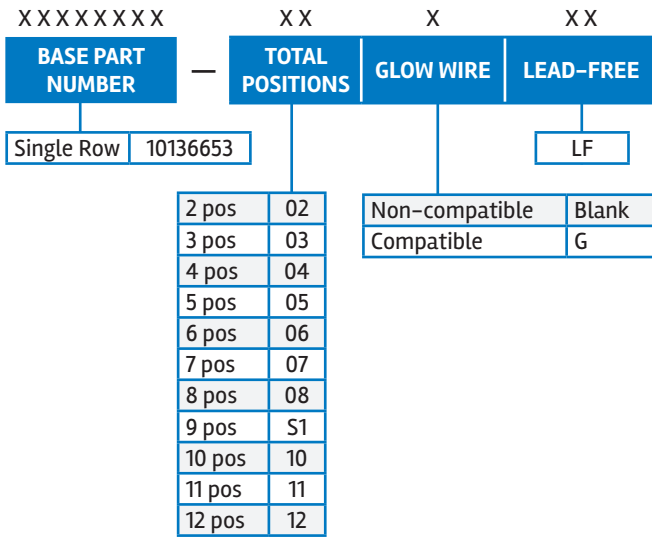
Dual Row, Header Housing



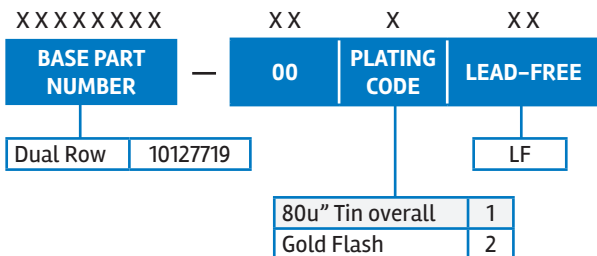
Dual Row, Receptacle Housing



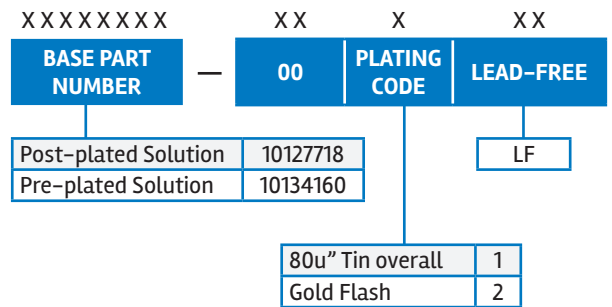
Single Row, Receptacle Housing



Header Terminal



Receptacle Terminal



Minitek® Pwr 3.0 & 4.2 Connector System

Core Range SELECTED PART NUMBERS

Base Part Number	Part Number	Pitch (mm)	Description	Row	Total Positions	Plating	Pre or Post-plated/ Color	AWG/ Material	Glow Wire
10127716	10127716-02LF	3.0	Receptacle Housing	Dual	2	-	-	-	Yes
	10127716-08LF	3.0	Receptacle Housing	Dual	8	-	-	-	Yes
	10127716-16LF	3.0	Receptacle Housing	Dual	16	-	-	-	Yes
	10127716-24LF	3.0	Receptacle Housing	Dual	24	-	-	-	Yes
10127717	10127717-02LF	3.0	Header Housing	Dual	2	-	-	-	Yes
10127718	10127718-001LF	3.0	Receptacle Crimp Terminal	-	-	1= Tin	Post-Plated	30 to 20	-
	10127718-002PLF	3.0	Receptacle Crimp Terminal	-	-	2= Gold Flash	Pre-Plated	30 to 20	-
10127719	10127719-001LF	3.0	Header Crimp Terminal	-	-	1= Tin	Post-Plated	30 to 20	-
10127720	10127720-021LF	3.0	Header, Right Angle, Through Hole	Dual	2	1= Tin	-	-	-
	10127720-081LF	3.0	Header, Right Angle, Through Hole	Dual	8	1= Tin	-	-	-
	10127720-242LF	3.0	Header, Right Angle, Through Hole	Dual	24	2= Gold Flash	-	-	-
10127721	10127721-021LF	3.0	Header, Vertical, Through Hole	Dual	2	1= Tin	-	-	-
	10127721-081LF	3.0	Header, Vertical, Through Hole	Dual	8	1= Tin	-	-	-
	10127721-082LF	3.0	Header, Vertical, Through Hole	Dual	8	2= Gold Flash	-	-	-
	10127721-242LF	3.0	Header, Vertical, Through Hole	Dual	24	2= Gold Flash	-	-	-
10127815	10127815-02LF	4.2	Receptacle Housing	Dual	2	-	-	-	Yes
	10127815-04LF	4.2	Receptacle Housing	Dual	2	-	-	-	Yes
	10127815-12LF	4.2	Receptacle Housing	Dual	2	-	-	-	Yes
10127816	10127816-02LF	4.2	Header Housing	Dual	2	-	-	-	Yes
10127817	10127817-122LF	4.2	Receptacle Crimp Terminal 1= Phosphorus Bronze	-	-	2= Tin	Post-Plated	2= 28 to 24	-
	10127817-221LF	4.2	Receptacle Crimp Terminal 2= Brass	-	-	2= Tin	Post-Plated	1= 22 to 16	-
10127818	10127818-121LF	4.2	Header Crimp Terminal 1= Phosphorus Bronze	-	-	2= Tin	Post-Plated	1= 22 to 16	-
10127819	10127819-12121LF	4.2	Header, Right Angle, Through Hole, w/o locating peg	Dual	12	1= Gold Flash	2= Black	1= Nylon 66	-
	10127819-12212PLF	4.2	Header, Right Angle, Through Hole, with both locating peg	Dual	12	2= Tin	1= Natural	2= LCP	-
10127820	10127820-0422LF	4.2	Header, Vertical, Through Hole	Dual	4	2= Tin	-	-	-
	10127820-1221LF	4.2	Header, Vertical, Through Hole	Dual	12	1= Gold Flash	-	-	-
10136653	-	3.0	Receptacle Housing	Single	2-12	-	-	-	-
10136654	-	3.0	Header, Right Angle, Through Hole	Single	2-12	-	-	-	-
10136655	-	3.0	Header, Right Angle, SMT w/ Hold Down	Single	2-12	-	-	-	-
10136656	-	3.0	Header, Vertical, Through Hole	Single	2-12	-	-	-	-
10137867	-	3.0	Header, Right Angle, SMT w/ DIP Hold Down	Single	2-12	-	-	-	-
10136644	-	4.2	Receptacle Housing	Single	3-5	-	-	-	-
10136645	-	4.2	Header Housing	Single	3-5	-	-	-	-
10136646	-	4.2	Header, Right Angle, Through Hole	Single	3-5	-	-	-	-
10136647	-	4.2	Header, Vertical, Through Hole	Single	3-5	-	-	-	-

BergStik® 2.54mm Unshrouded Headers

Vertical in Standard & Special Sizes,
Right Angle, Stacking

Amphenol
ICC

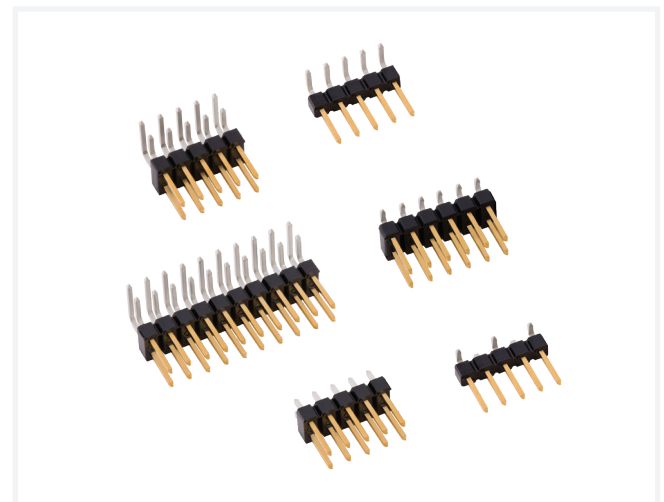
2.54mm

INNOVATIVE SOLUTION FOR DEMANDING APPLICATIONS

BergStik® product range provides Board-to-Board, Wire-to-Board and Cable-to-Board interconnect solutions for all electronic equipment and devices.

BergStik® 2.54mm unshrouded headers are available in surface mount (SMT), through hole (TH), press fit, stacking and pin-in-paste (PIP) versions. Designed in single and dual row, they are available in vertical or right angle options, from 2 to 72 positions.

- Continuously molded and reeled
- Benchtop machine cuts, polarizes and applies retentive leg
- Each connector can be cut at the required length



TARGET MARKETS



FEATURES

- High Temperature thermoplastic
- Variable spacing height for stacking headers
- Allow dual entry, mating from top or bottom
- Blank 0.64mm square contacts presents 4 surfaces of equal quality
- Stand-offs design
- Duplex plating
- Tin-lead plating in press-fit area
- Retention legs option available
- Press-fit designed to fit 1.02mm diameter hole, solder-to-board
- Meets DIN 41651 specification, HE13 and BT D2632

BENEFITS

- Reflow compatible
- Caters to a wide range of applications
- Suitable for mezzanine application and gives more flexibility in meeting different stack height requirements
- Can be used for wire wrapping
- Allow cleaning to remove soldering contaminations
- Cost-efficient
- Ensures easy pin insertion onto PCB
- Ensures higher retention force onto PCB
- Same layout on TH and press-fit
- Qualified product

▶ BergStik® Unshrouded Header, Vertical, Standard

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on contact area, Tin on solder side
 - 8= 0.38µm Gold or GXT® on contact area, Tin on solder side
 - 5= 0.25µm Gold or GXT® on contact area, Tin on solder side
 - 4= Tin

MECHANICAL PERFORMANCE

- Retention Force: 9N min.

APPROVALS AND CERTIFICATIONS

-  File no. E66906
-  File no. LR46923
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Bags
- Optional: Tube or Tape/Reel with pick-up cap (only applicable for SMT pin style 01)

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

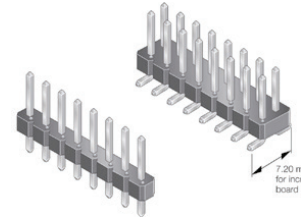
- Current Rating: 3A per contact
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500V

SPECIFICATIONS

- Product Specification: GS-12-114
- Tape/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



MATING INFORMATION

Product	Page
Dubox® Crimp-to-Wire Contacts	41
Dubox® Crimp-to-Wire Housing	42
Dubox® Vertical Receptacle	36
Dubox® Vertical Receptacle, Low Profile	37
Quickie® IDC Receptacle	51
PV® Crimp-to-Wire Contacts	57
PV® Crimp-to-Wire Housing	59

▶ BergStik® Unshrouded Header, Vertical, Standard

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
77311	77311-818-02LF	Single Row, TH	8= 0.38µm Gold or GXT® on contact, Tin on solder side	18= Mating Length: 5.84, Solder: 3.05, Overall: 11.43	2	Plastic Bag
	77311-818-03LF				3	
	77311-818-04LF				4	
	77311-818-05LF				5	
	77311-818-06LF				6	
	77311-818-07LF				7	
	77311-818-08LF				8	
	77311-818-09LF				9	
	77311-818-10LF				10	
	77311-818-11LF				11	
	77311-818-12LF				12	
	77311-818-36LF				36	
77313	77313-818-08LF	Dual Row, TH	8= 0.38µm Gold or GXT® on contact, Tin on solder side	18= Mating Length: 5.84, Solder: 3.05, Overall: 11.43	8	Plastic Bag
	77313-818-10LF				10	
	77313-818-12LF				12	
	77313-818-14LF				14	
	77313-818-16LF				16	
	77313-818-18LF				18	
	77313-818-20LF				20	
	77313-818-72LF				72	
95278	95278-801A04LF	Dual Row, SMT	8= 0.38µm Gold or GXT® on contact, Tin on solder side	1= Mating Length: 5.84, Solder: 2.41, Overall: 10.80	4	Tape/Reel with pick-up cap
	95278-801A06LF				6	
	95278-801A08LF				8	
	95278-801A10LF				10	
	95278-801A12LF				12	

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
77311	77311-824-02LF	Single Row, TH	8= 0.38µm Gold or GXT® on contact, Tin on solder side	24= Mating Length: 6.75, Solder: 2.90, Overall: 12.20	2	Plastic Bag
	77311-824-03LF				3	
	77311-824-04LF				4	
	77311-824-05LF				5	
	77311-824-06LF				6	
	77311-824-08LF				8	
	77311-824-10LF				10	
	77311-824-36LF				36	
77313	77313-824-04LF	Dual Row, TH	8= 0.38µm Gold or GXT® on contact, Tin on solder side	24= Mating Length: 6.75, Solder: 2.90, Overall: 12.20	4	Plastic Bag
	77313-824-06LF				6	
	77313-824-08LF				8	
	77313-824-10LF				10	
	77313-824-12LF				12	
	77313-824-14LF				14	
	77313-824-16LF				16	
	77313-824-20LF				20	
	77313-824-72LF				72	

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on contact area, Tin on solder side
 - 2= 0.38µm Gold or GXT® on contact area, Tin on solder side
 - 4= Tin

MECHANICAL PERFORMANCE

- Retention Force: 9N min.
- Retentive Leg Insertion Force: >44.48N max.
- Retentive Leg Board Retention: 2.22N

APPROVALS AND CERTIFICATIONS

-  File no. E66906
-  File no. LR46923
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Bags
- Optional: Tube or Tape/Reel with pick-up cap (only applicable for SMT pin style 01)

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Current Rating: 3A per contact
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500Vrms

SPECIFICATIONS

- Product Specification: GS-12-114

PROCESSING INFORMATION

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



2.54mm

MATING INFORMATION

Product	Page
Dubox® Crimp-to-Wire Contacts	41
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PV® Crimp-to-Wire Contacts	57
PV® Crimp-to-Wire Housing	59

▶ BergStik® Unshrouded Header, Vertical, Special

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
67996	67996-200HLF	Dual Row, TH	2= 0.38µm Gold or GXT® on contact area, Tin on solder side	Mating Length: 5.84, Solder: 2.41, Overall: 10.8	2	Reel
	67996-204HLF				4	Bulk
	67996-206HLF				6	
	67996-208HLF				8	
	67996-210HLF				10	
	67996-212HLF				12	
	67996-216HLF				16	
	67996-220HLF				20	
68000	68000-200HLF	Single Row, TH	2= 0.38µm Gold or GXT® on contact area, Tin on solder side	Mating Length: 5.84, Solder: 2.41, Overall: 10.8	1	Reel
	68000-204HLF				4	Bulk
	68000-206HLF				6	
	68000-208HLF				8	
	68000-210HLF				10	
	68000-212HLF				12	
	68000-216HLF				16	
	68000-220HLF				20	

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature, Black Thermoplastic
- Flammability Rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact Area, Tin on Solder Side
 - 8= 0.38 µm (15µ") Gold on Mating Area, Tin on Solder Side
 - 5= 0.25µm Gold on Contact, Tin on Solder Side
 - 4= Tin

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 9N min.



ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500V

PACKAGING

- Bags

APPROVALS AND CERTIFICATIONS

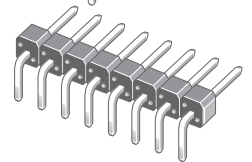
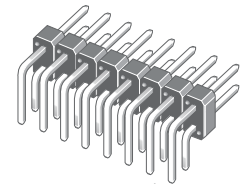
-  File No. E66906
-  File No. LR46923
- Product Drawing: By 5-digit base part number
- Product Specification: BUS-12-114
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

ENVIRONMENTAL

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

SPECIFICATIONS

- Product Specification: GS-12-114



MATING INFORMATION

Product	Page
Dubox® Crimp-to-Wire Contact	41
Dubox® Crimp-to-Wire Housing	42
Dubox® Vertical Receptacle	36
Dubox® Vertical Receptacle, Low Profile	37
Dubox® Horizontal Receptacle	40
Quickie® IDC Receptacle	51
PV® Crimp-to-Wire Contact	57
PV® Crimp-to-Wire Housing	59

PART NUMBER SELECTOR

XXXXX X XX X XX XX LF

BASE PART NUMBER **PLATING CODE** **PIN STYLE LENGTH** **PACKAGING OPTION** **TOTAL POSITIONS** **LEAD-FREE** **LF**

Through Hole (TH)	
Single Row	77315
Dual Row	77317

Surface Mount (SMT)	
Single Row w/o peg	10119333
Single Row with peg	10119332
Dual Row w/o peg	10118084
Dual Row with peg	10118085

Packaging	Configuration	Option
Plastic Bag	TH/SMT	-
Tape/Reel with Pick-up Cap	SMT	A
Tube with Pick-up Cap	SMT	B

Single Row (TH)	02 TO 36
Single Row (SMT)	02 TO 15
Dual Row (TH)	04 TO 72
Dual Row (SMT)	04 TO 30

Through Hole (TH) 77315				Through Hole (TH) 77317				Surface Mount (SMT)	
Mating Length	Solder	Overall	Pin Style	Mating Length	Solder	Overall	Pin Style	Mating Length	Solder
5.84	2.57	N.A	01	5.84	2.57	N.A	03	5.84	01
5.84	3.05	N.A	18	5.84	3.05	N.A	04	8.08	02
6.75	2.9	N.A	24	6.75	2.9	N.A	12	10.67	03

0.76µm Gold or GXT® on Contact, Tin on Solder Side	1
0.38µm Gold or GXT® on Contact, Tin on Solder Side	8
0.25µm Gold or GXT® on Contact, Tin on Solder Side	5
Tin	4

BergStik® Unshrouded Stacking Headers

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature, Black Thermoplastic
- Flammability Rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact Area, Tin on Solder Side
 - 8= 0.38 µm (15µ") Gold on Mating Area, Tin on Solder Side
 - 5= 0.25µm Gold on Contact, Tin on Solder Side
 - 4= Tin

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 9N min.



ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1500V

PACKAGING

- Bags

APPROVALS AND CERTIFICATIONS

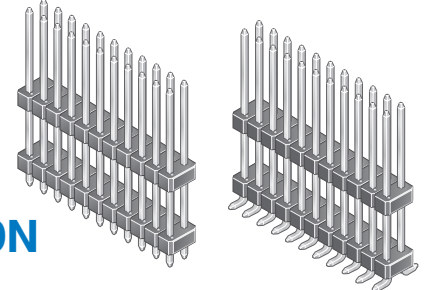
-  File No. E66906
-  File No. LR46923
- Product Drawing: By 5-digit base part number
- Product Specification: BUS-12-114
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

ENVIRONMENTAL

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

SPECIFICATIONS

- Product Specification: GS-12-114



MATING INFORMATION

Product	Page
Dubox® Vertical Receptacle	36
Dubox® Vertical Receptacle, Low Profile	37

PART NUMBER SELECTOR

XXXXX	X	X	X	X	XX	XX	XX.XX	XX
BASE PART NUMBER	TERMINATION STYLE	SOLDER SIDE OPTION	ROW OPTION	PLATING OPTION	PIN STYLE	TOTAL POSITIONS	STACK HEIGHT	LEAD-FREE
54	Through Hole Surface Mount	1 2	Single Row (Through Hole Only) Dual Row	1 2			XX.XX = mm specify mm ie. 08.50 = 8.50mm in 0.50mm increments Through Hole = 08.00 min. - 25.00 max. Surface Mount = 09.50 min. - 26.00 max.	LF
2.41mm 3.05mm SMT (Double Row Only)	1 2 4	0.76µm Gold or GXT® on Contact, Tin on Solder Side 0.38µm Gold or GXT® on Contact, Tin on Solder Side 0.25µm Gold or GXT® on Contact, Tin on Solder Side Tin	1 8 5 4					
Pin Style	Overall Length (Through Hole)	Overall Length (SMT)	Pin Style	Overall Length (Through Hole)	Overall Length (SMT)			
01	12.20	10.42	07	20.96	19.18			
02	13.50	11.72	08	23.50	21.72			
03	15.90	14.12	09	26.04	24.26			
04	16.76	14.98	10	28.58	26.80			
05	17.65	15.87	11	31.12	29.34			
06	18.91	17.13	12	33.66	31.88			
						Single Row (Through Hole)	02 to 36	
						Dual Row (Through Hole)	04 to 72	
						Dual Row (Surface Mount)	04 to 50	

Dubox® 2.54mm

Headers, Receptacles, Crimp-To-Wire & Shunts

Amphenol
ICC

2.54mm

RELIABLE SOLUTION THAT AIDS ALIGNMENT

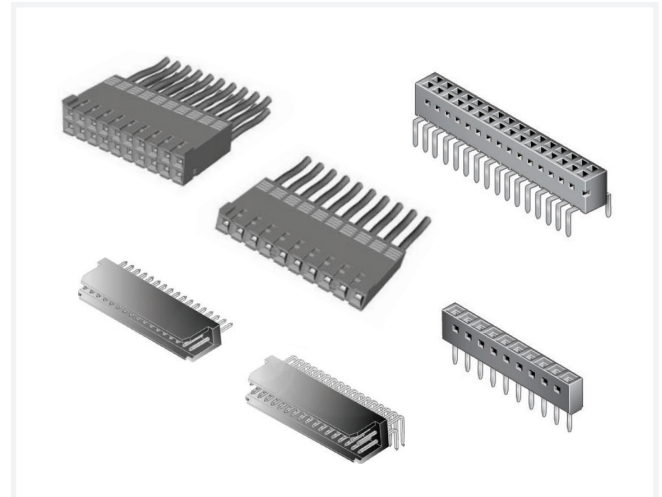
Dubox® is a comprehensive and extensive solution designed with solder tails self center on circuit pads to assure coplanarity. A locating peg feature helps to maintain alignment for soldering and facilitates robot placement.

Dubox® 2.54mm are available in surface mount (SMT) and through hole (TH) versions. Designed in single and dual row, they are available in vertical or right angle options, from 2 to 50 positions.

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

FEATURES

- Dual beam contact design
- Contact pre-stressed
- Mates with very short pins (5mm) stackable side-by-side and end-to-end
- Floating solder tails self center on the circuit pads
- 4 wall contact design
- Duplex plating
- Locating peg option available
- High Temperature material
- Meets DIN 41651 specification, HE13 and BT D2632



TARGET MARKETS



BENEFITS

- High and reliable electrical performance
- Low insertion force required
- Suitable for mezzanine application and gives more flexibility in meeting different stack height requirements
- Ensures coplanarity
- Signal protection
- Cost-efficient
- Maintains alignment for soldering and facilitates robotic placement
- Compatible with Infra-Red and Vapor-Phase reflow
- Qualified product

TECHNICAL INFORMATION



MATERIAL

- Housing: Glass-filled Thermoplastic Polyester
- Housing Color for Series 76382, 76383: Blue
- Housing Color for Series 76384, 76385: Black
- Flammability Rating: UL94V-0
- Contact: Copper Alloy
- Plating:
 - 3= 0.76µm Gold or GXT® on Contact, Tin on Solder Side
 - 4= 2µm min. Matte Tin Full Plated

MECHANICAL PERFORMANCE

- Contact Retention To Housing: 20N min.

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Plastic Bag: 2 to 6 position connectors
- Tube: 7 to 18 position connectors

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATIONS

- Product Specification: GS-14-920
- Application Specification: TA-531

PROCESSING INFORMATION

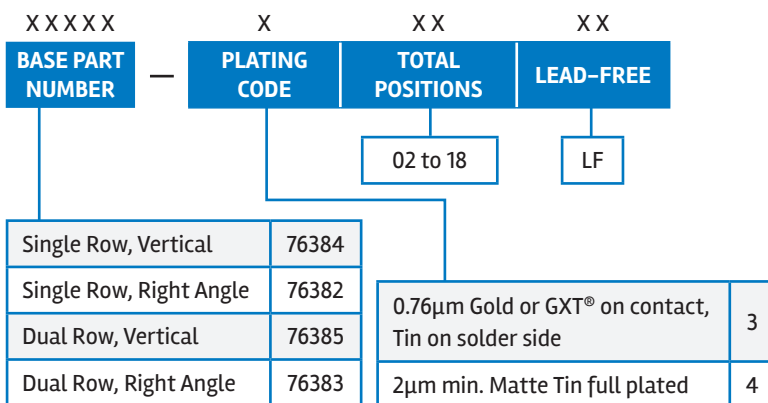
- Compatible with wave soldering processes



MATING INFORMATION

Product	Page
Dubox® Crimp-to-Wire Contacts	41
Dubox® Crimp-to-Wire Housing	42

PART NUMBER SELECTOR





SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
76385	76385-302LF	Dual Row, Vertical	3= 0.76µm Gold or GXT® on contact, Tin on solder side	Mating Length: 5.00, Solder: 3.43	4	Plastic Bag
	76385-303LF				6	
	76385-304LF				8	
	76385-305LF				10	
	76385-306LF				12	
	76385-307LF				14	
	76385-308LF				16	Tube
	76385-309LF				18	
	76385-310LF				20	
	76385-311LF				22	
	76385-312LF				24	

2.54mm



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
76384	76384-302LF	Single Row, Vertical	3= 0.76µm Gold or GXT on contact, Tin on solder side	Mating Length: 5.00, Solder: 3.43	2	Plastic Bag
	76384-303LF				3	
	76384-304LF				4	
	76384-305LF				5	
	76384-306LF				6	
	76384-307LF				7	
	76384-308LF				8	Tube
	76384-309LF				9	
	76384-310LF				10	
	76384-311LF				11	
	76384-312LF				12	

Dubox® Receptacle, Vertical, Standard

TECHNICAL INFORMATION



MATERIAL

- Housing: Glass-filled Thermoplastic Polyester, Blue
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or Tin in accordance with IEC 603-81
- Plating:
 - 3= 0.76µm Gold or GXT® on Contact, Tin on Solder Side
 - 8= 0.38µm Gold or GXT® on Contact, Tin on Solder Side

MECHANICAL PERFORMANCE

- Insertion Force per Gold contact: 1.50N (150gf) max.
- Withdrawal Force per Gold contact: 0.30N (30gf) min.
- Insertion Depth:
 - Top entry: 3.6mm min. to 6.98mm max. [provides .381mm wipe]
 - Bottom entry: 7mm min. [provides .381mm wipe] plus board thickness

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Plastic Box: 2 to 4 Position Connectors
- Tube: 5 to 50 Position Connectors

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

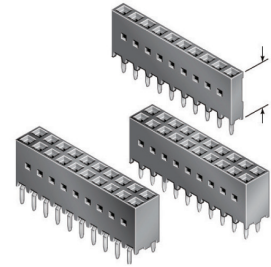
- Current Rating: 3A max. per individual contact, 2A DC max. per contact for fully energized connector
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATIONS

- Product Specification: HE 13/14 and IEC 603-8

PROCESSING INFORMATION

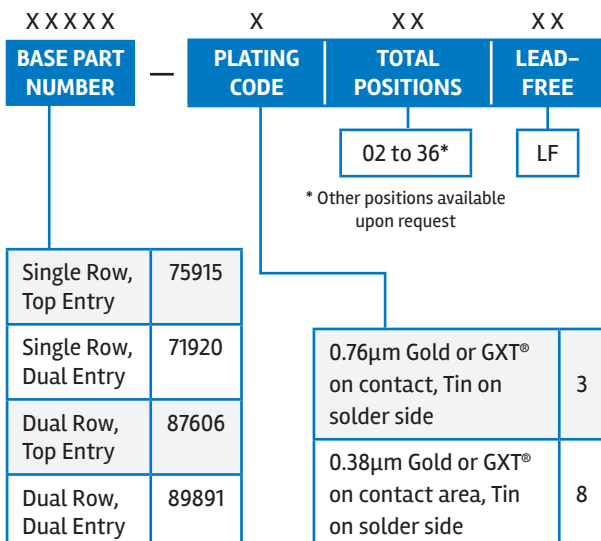
- Compatible with wave soldering processes



MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

PART NUMBER SELECTOR



SELECTED PART NUMBERS

Base Part Number	Part Number	Plating	Total Positions	Packaging
87606	87606-804LF	8= 0.38µm Gold or GXT® on contact, Tin on solder side	8	Tube
	87606-805LF		10	
	87606-806LF		12	
	87606-807LF		14	
	87606-808LF		16	
	87606-809LF		18	
	87606-810LF		20	

- Plastic Box: 2 to 4 position connectors
- Tube: 5 to 50 position connectors

TECHNICAL INFORMATION



MATERIAL

- Housing (TH): Glass-filled Thermoplastic Polyester, Blue
- Housing (SMT): High Temperature Body, Grey
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or Tin over 1.27µm Nickel
- Plating:
 - 3= 0.76µm Gold or GXT® on Contact, Tin on Solder Side
 - 4= 2µm min. Matte Tin Full Plated
 - 8= 0.38µm Gold or GXT® on Contact, Tin on Solder Side

MECHANICAL PERFORMANCE

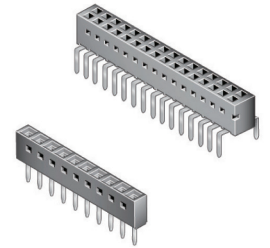
- Insertion Force per Gold contact: 1.50N (150gf) max.
- Withdrawal Force per Gold contact: 0.30N (30gf) min.
- Insertion Depth:
 - Top entry: 3.6mm min. to 6.98mm max. [provides .381mm wipe]
 - Bottom entry: 7mm min. [provides .381mm wipe] plus board thickness

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING (TH)

Base Part Number	Total Positions	Packaging
76341	02 to 04	Plastic Box
	05 to 50	Tube
76342	02 to 04	Plastic Box
	05 to 50	Tube
71991	02 to 50	Tube



2.54mm

PACKAGING (SMT)

- Plastic Boxes or Tube
- Tape/Reel as available

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Current Rating: 3A DC max. per individual contact, 2A DC max. per contact for fully energized connector
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATIONS

- Product Specification: BUS-12-055

PROCESSING INFORMATION

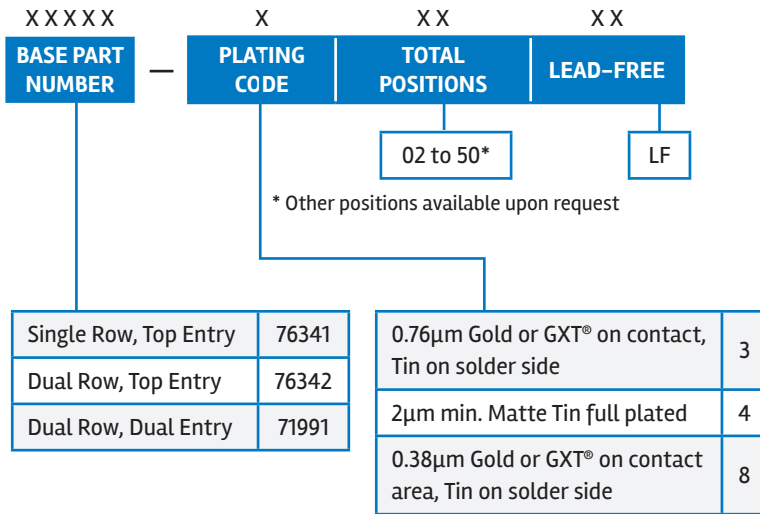
- Compatible with wave soldering processes

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

▶ Dubox® Receptacle, Vertical, Low Profile

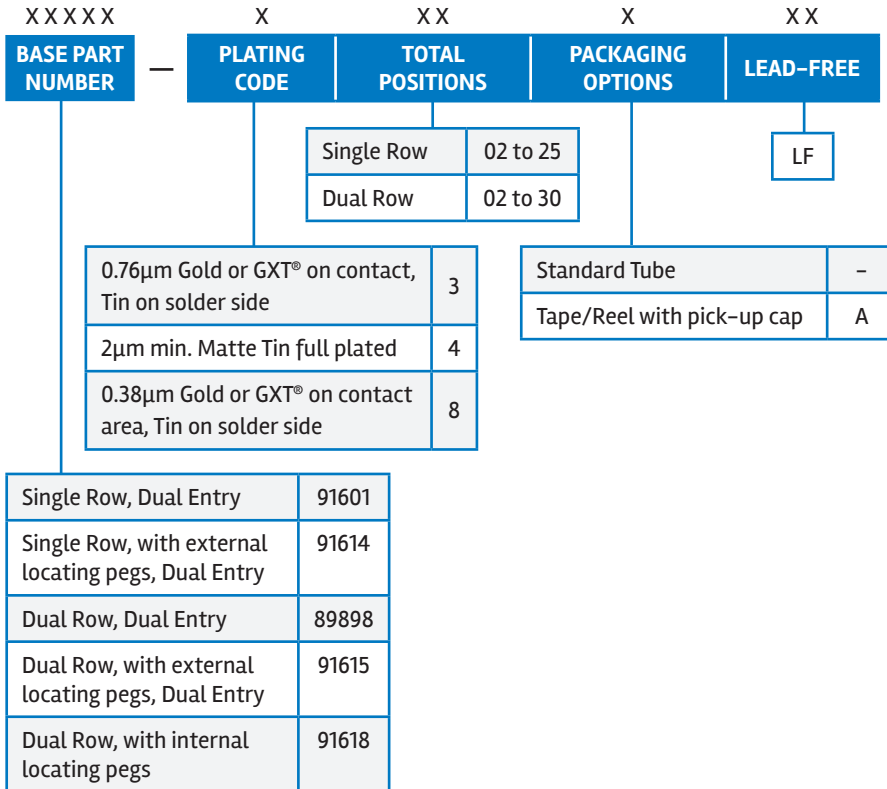
PART NUMBER SELECTOR– THROUGH HOLE (TH)



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
71991	71991-802LF	Dual Row, Dual Entry	8= 0.38µm Gold or GXT® on contact, Tin on solder side	4	Tube
	71991-803LF			6	
	71991-804HLF			8	
	71991-805LF			10	
	71991-807LF			14	
	71991-808LF			16	
	71991-810LF			20	

PART NUMBER SELECTOR– SURFACE MOUNT (SMT)



2.54mm

Core Range **SELECTED PART NUMBERS**

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
89898	89898-302ALF	Dual Row, Dual Entry	3= 0.76µm Gold or GXT® on contact, Tin on solder side	4	Tape/Reel with pick-up caps available
	89898-303ALF			6	
	89898-304ALF			8	
	89898-305ALF			10	
	89898-306ALF			12	
	89898-307ALF			14	
	89898-308ALF			16	
	89898-309ALF			18	
	89898-310ALF			20	
91601	91601-803ALF	Single Row, Dual Entry	8= 0.38µm Gold or GXT® on contact, Tin on solder side	6	Tape/Reel with pick-up caps available
	91601-804ALF			8	
	91601-805ALF			10	
	91601-806ALF			12	
	91601-807ALF			14	
	91601-808ALF			16	
	91601-809ALF			18	
	91601-810ALF			20	
	91601-812ALF			24	

Dubox® Horizontal Receptacles

TECHNICAL INFORMATION

MATERIAL

- Housing: Blue Thermoplastic –Through Hole
- High Temp. Grey Thermoplastic – Surface Mount
- Flammability Rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating:
 - 3= 0.76µm Gold or GXT® on Contact area, Tin on Solder Side

MECHANICAL PERFORMANCE

- Mating Cycles (Durability): 200
- Insertion Force per Gold Contact: 1.50N (150 gf) max.
- Withdrawal Force per Gold Contact: 0.30N (30 gf) min.



ELECTRICAL PERFORMANCE

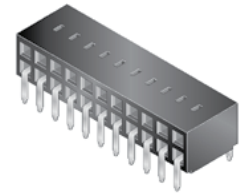
- Current Rating: 3A dc max. per Individual Contact
- 2A dc max. per Contact for Fully Energized Connector
- Insulation Resistance: 1x 105MΩ min.
- Contact Resistance: 15MΩ max. Initial, 20MΩ max. after Environmental Tests
- Dielectric Withstanding Voltage: 1000V rms

PACKAGING

- Standard: Tubes
- Optional: Tape-and-reel

APPROVALS AND CERTIFICATIONS

-  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: This product is compatible according to the European Union Directive 2011/65/EU



ENVIRONMENTAL

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

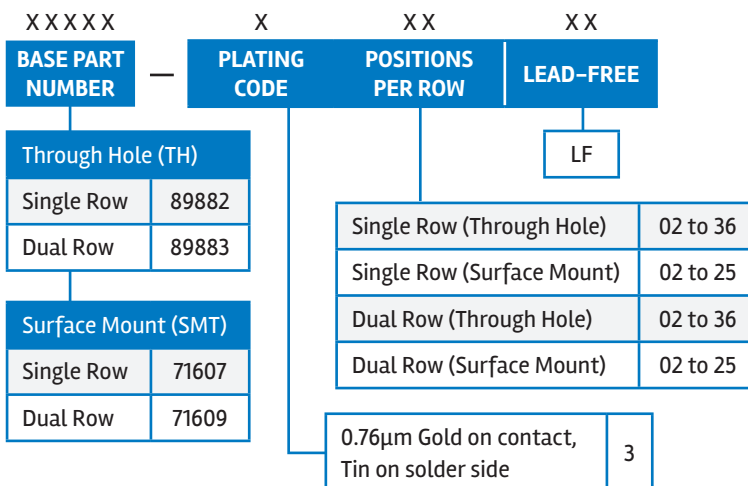
SPECIFICATIONS

- Product Specification: BUS-12-055he European Union Directive 2002/95/IEC

MATING INFORMATION

Product	Page
Bergstik® Unshrouded Vertical Headers	26, 30
Bergstik® Unshrouded Right Angle Headers	31
Bergstik® Continuous Unshrouded Headers	32

PART NUMBER SELECTOR



TECHNICAL INFORMATION



MATERIAL

- Contact: Phosphor-bronze
- Plating:
 - 3= 0.76µm Gold or GXT® on Contact, Tin-Lead on Solder Side
 - 4= 5µm Tin-Lead on Contact Area, 3.81µm Tin-Lead on Tail

MECHANICAL PERFORMANCE

- Insertion Force per Gold Contact: 1.3N
- Withdrawal Force per Gold Contact: 0.3N min.
- Contact Retention Force to Housing: 15N per Contact
- Insertion Depth:
 - Discrete Wire: 3.6mm min. to 5.6mm max. [provides .381mm wipe]
 - Crimp-to-Wire Housing: 5.1mm min. to 6.2mm max. [provides .381mm wipe in housing]

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Reel
- Box for Loose Pieces

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Contact Resistance after environmental test: 15mΩ max. per contact
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATIONS

- Product Specification: BUS-12-055
- Application Specification: TA-317, TA-340

PROCESSING INFORMATION

- Compatible with wave soldering processes

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30



2.54mm

PART NUMBERS – CONTACTS ON REEL

Wire Gauge (AWG)	Insulation O.D.	Selective Gold Plated	Tin Plated	Packaging
30 to 22	0.90 – 1.50	76347-301LF	76347-401LF	15,000/reel
30 to 22	0.90 – 1.50	76347-302LF*	76347-402LF*	15,000/reel
30 to 22	0.90 – 1.50	76347-303LF	76347-403LF	500/reel
22 to 20	1.10 – 1.60	76347-311LF	76347-411LF	15,000/reel
22 to 20	1.10 – 1.60	76347-312LF*	76347-412LF*	15,000/reel

* Other positions available upon request

Core Range SELECTED PART NUMBERS

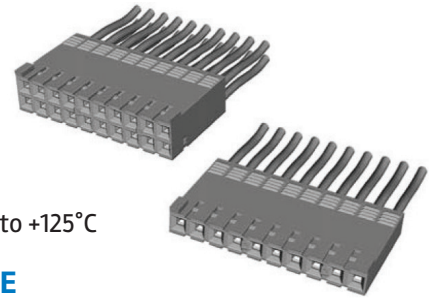
Base Part Number	Part Number	Plating	Wire Gauge (AWG)	Insulation O.D.	Packaging
76347	76347-301LF	3= 0.76µm Gold on contact area, 3.81µm Tin-Lead on Tail	30 to 22	0.90 – 1.50	-
	76347-302LF				Reeled for application machine with left-to-right feeding
	76347-401LF	4= 5µm Tin-Lead on contact area, 3.81µm Tin-Lead on Tail	30 to 22	0.90 – 1.50	-
	76347-402LF				Reeled for application machine with left-to-right feeding

PART NUMBERS – CONTACTS ON LOOSE PIECES

Wire Gauge (AWG)	Insulation O.D.	Selective Gold Plated	Tin Plated	Packaging
30 to 22	0.90 – 1.50	76357-301LF	76357-401LF	1000/box

* Reeled for application machine with left-to-right feeding

Dubox® Crimp-To-Wire Housing



TECHNICAL INFORMATION

MATERIAL

- Housing: Glass-filled Thermoplastic Polyester
- Housing Color: Blue
- Flammability Rating: UL94V-0

MECHANICAL PERFORMANCE

- Insertion Depth:
 - 3.6mm min. to 6.0mm max.

APPROVALS AND CERTIFICATIONS

- File No. E66906
- File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Bulk

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 1000Vrms

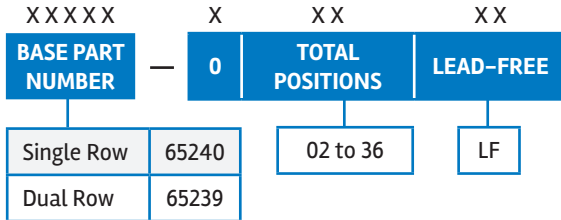
SPECIFICATIONS

- Application Specification: TA-317, TA-340

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

PART NUMBER SELECTOR



Core Range SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Total Positions	Packaging
65239	65239-002LF	Dual Row	4	Bulk
	65239-003LF	Dual Row	6	Bulk
	65239-004LF	Dual Row	8	Bulk
	65239-005LF	Dual Row	10	Bulk
	65239-006LF	Dual Row	12	Bulk
	65239-007LF	Dual Row	14	Bulk
	65239-008LF	Dual Row	16	Bulk
	65239-009LF	Dual Row	18	Bulk
	65239-010LF	Dual Row	20	Bulk

Priority Part

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Total Positions	Packaging
65239	65239-011LF	Dual Row	22	Bulk
	65239-012LF		24	
	65239-013LF		26	
	65239-015LF		30	
	65239-016LF		32	
	65239-017LF		34	
	65239-018LF		36	
	65239-020LF		40	
	65239-025LF		50	
	65239-030LF		60	
65240	65240-002LF	Single Row	2	Bulk
	65240-003LF		3	
	65240-004LF		4	
	65240-005LF		5	
	65240-006LF		6	
	65240-007LF		7	
	65240-008LF		8	
	65240-009LF		9	
	65240-010LF		10	
	65240-011LF		11	
	65240-012LF		12	

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.38µm Gold or GXT® on Contact, Tin on Solder Side
 - 2= 0.76µm Gold or GXT® on Contact, Tin on Solder
 - 3= 2µm min. Matte Tin Full Plated

MECHANICAL PERFORMANCE

- Insertion Force:
 - 450gf max, per Gold Contact
 - 500gf max, per Tin-lead Contact
- Withdrawal Force:
 - 30gf min, per Gold Contact
 - 30gf min, per Tin-lead Contact
- Insertion Depth:
 - 4.85mm min.
[provides 3.81mm wipe] – Low Profile]

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Plastic Bags

ENVIRONMENTAL

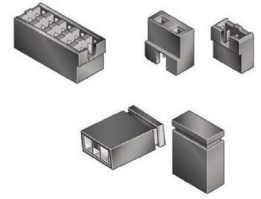
- Operating Temperature: -65°C to +105°C

ELECTRICAL PERFORMANCE

- Current Rating: 2.5A max. per contact
- Insulation Resistance: 50,000MΩ min.
- Contact Resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric Withstanding Voltage: 800Vrms

SPECIFICATIONS

- Product Specification: GS-12-071 (Gold), GS-12-070 (Tin)



2.54mm

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

PART NUMBER SELECTOR

Low Profile/ Standard / Multi-Position

XXXXX		X	XX	XX
BASE PART NUMBER	PLATING CODE	TOTAL POSITIONS	LEAD-FREE	
Low Profile	68786		LF	
Standard	63429			
Multi-Position	69145			
		Low Profile/ Standard	02	
		Multi-Position	04 to 20	
0.38µm Gold or GXT® on contact area, Tin on solder side				1
0.76µm Gold or GXT® on contact, Tin on solder side				2
Tin				3



SELECTED PART NUMBERS

Part Number	Type	Plating	Total Positions	Packaging
68786-102LF	Low Profile	1= 0.38µm Gold or GXT® on contact, Tin on solder	2	Plastic Bag

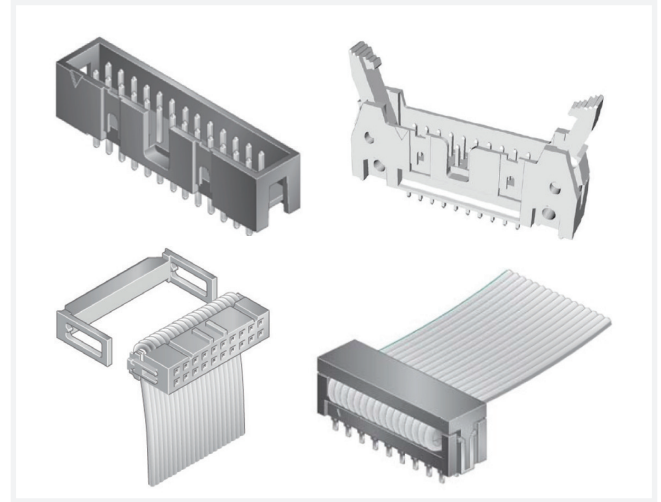
Quickie® 2.54mm

Low Profile & Eject Latch Headers, IDC Header & Receptacle

RELIABLE, HIGH PERFORMANCE COMPLETE SOLUTION

Quickie® is the comprehensive solution for flat cable-to-board connections. The product range includes shrouded low profile headers, shrouded eject latch headers, IDC header and receptacles.

- Plating performance guarantees 100 mating cycles
- Four walled shielding protects pins in unmated condition and prevents misalignment
- Pre-loaded adjustable bridge-type cover reduces assembly time, protects contacts and offers precise cover-to-base



TARGET MARKETS



HEADERS

FEATURES

- Four-walled shielding
- Dual polarization by use of polarizations keys
- Side window
- Unique lock and eject system
- Duplex plating
- Meets DIN 41651 specification, HE13 and BT D2632

BENEFITS

- Protects pins in unmated condition and prevents misalignment
- Prevents mismatching
- Enables unique locking through latching system
- Minimizes PCB space required and allowing dense packaging design
- Cost-efficient
- Qualified product

RECEPTACLES

FEATURES

- Dual beam contact design
- Contact pre-stressed
- Mates with very short pins (5mm) stackable side-by-side and end-to-end
- Floating solder tails self center on the circuit pads
- Meets DIN 41651 specification, HE13 and BT D2632

BENEFITS

- Reduces assembly time, protects contacts and offers precise cover-to-base
- Ensures good contact
- Suitable for a wide range of cables
- Cost-efficient
- Qualified product

Quickie® Shrouded Header, Low Profile

TECHNICAL INFORMATION

MATERIAL

- Housing: Glass-filled, Thermoplastic Polyester, Blue
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact, Tin on Solder Side
 - 2= Tin
 - 3= 0.38µm Gold or GXT® on Contact Area, Tin on Solder

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 20N min.

APPROVALS AND CERTIFICATIONS

- File No. E66906
- File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Tube

PART NUMBER SELECTOR

X X X X X X X X X X

BASE PART NUMBER	PLATING CODE	TOTAL POSITIONS	LEAD-FREE
Through Hole (TH)			
Vertical	75869		LF
Right Angle	75867		
0.76µm Gold or GXT® on contact, Tin on solder side		1	
Tin		2	
0.38µm Gold or GXT® on contact, Tin on solder side		3	

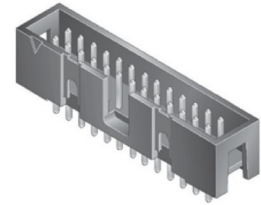
4 pos	30	26 pos	05
6 pos	31	34 pos	06
8 pos	32	40 pos	07
10 pos	01	50 pos	08
14 pos	02	60 pos	09
16 pos	03	64 pos	10
20 pos	04		

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 500Vrms min.



SPECIFICATION

- Product Specification: BUS-12-082

PROCESSING INFORMATION

- Compatible with wave soldering processes

MATING INFORMATION

Product	Page
Quickie® IDC Receptacle	51

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
75869	75869-301LF	Vertical, Low Profile, TH	3= 0.38µm Gold or GXT® on contact, Tin on solder side	Solder: 3.05	10	Tube
	75869-302LF				14	
	75869-303LF				16	
	75869-304LF				20	
	75869-305LF				26	
	75869-306LF				34	
	75869-330LF				4	
	75869-331LF				6	
	75869-332LF				8	

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
75867	75867-301LF	Right Angle, Low Profile, TH	3= 0.38µm Gold or GXT® on contact, Tin on solder side	Solder: 3.05	10	Tube
	75867-302LF				14	
	75867-303LF				16	
	75867-304LF				20	
	75867-305LF				26	
	75867-306LF				34	
	75867-330LF				4	
	75867-331LF				6	
	75867-332LF				8	

TECHNICAL INFORMATION



MATERIAL

- Housing: Glass filled, High Temperature Thermoplastic Polyester, Black
- Flammability Rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact Area, Tin on Solder Side

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 20N min.

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

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

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

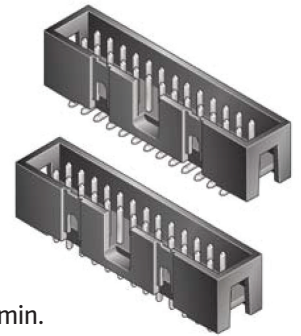
- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 500Vrms min.

SPECIFICATION

- Product Specification: BUS-12-082

PROCESSING INFORMATION

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



MATING INFORMATION

Product	Page
Quickie® IDC Receptacle	51

PART NUMBER SELECTOR

X X X X X X X X		X	X X		X	X X	
BASE PART NUMBER		PLATING CODE	TOTAL POSITIONS		PACKAGING OPTION	LEAD-FREE	
Through Hole (TH)		1	08	26	Tape & Reel Tube	LF	
Vertical	10056844		10	30		A Blank	
Right Angle	10056845		14	34			
			16	40			
0.76µm GXT® on contact, Tin on solder side			20				

Quickie® Shrouded Header, Eject Latch

TECHNICAL INFORMATION



MATERIAL

- Housing: Glass-filled Thermoplastic Polyester, Grey
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - 0.76µm Gold or GXT® on Contact, Tin on Solder Side

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 20N min.

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Tube

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

ELECTRICAL PERFORMANCE

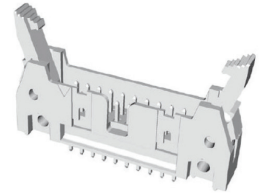
- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 500Vrms

SPECIFICATIONS

- Product Specification: BUS-12-082

PROCESSING INFORMATION

- Compatible with wave soldering processes



MATING INFORMATION

Product	Page
Quickie® IDC Receptacle	51

PART NUMBER SELECTOR

XXXXX		X	XX	X	XX	
BASE PART NUMBER		LATCH STYLE	TOTAL POSITIONS	PLATING CODE	LEAD-FREE	
Through Hole (TH)					LF	
Vertical	71918					0.76µm Gold or GXT® on mating area, Tin on solder side
Right Angle	71922					
Standard (Mates with IDC Receptacle with Strain Relief)	1					
Low Profile (Mates with IDC Receptacle without Strain Relief)	2					
		6 pos	06	26 pos	26	
		8 pos	08	30 pos	30	
		10 pos	10	34 pos	34	
		14 pos	14	44 pos	44	
		16 pos	16	50 pos	50	
		18 pos	18	60 pos	60	
		20 pos	20	64 pos	64	



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
71918	71918-106LF	Vertical, TH	0.76µm Gold or GXT® on contact, Tin on solder side	1= Standard	6	Tube
	71918-108LF				8	
	71918-110LF				10	
	71918-114LF				14	
	71918-116LF				16	
	71918-118LF				18	
	71918-120LF				20	
	71918-126LF				26	
	71918-130LF				30	
	71918-134LF				34	



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
71918	71918-210LF	Vertical, TH	0.76µm Gold or GXT® on contact, Tin on solder side	2= Low Profile	10	Tube
	71918-214LF				14	
	71918-216LF				16	
	71918-220LF				20	
	71918-226LF				26	
	71918-234LF				34	
71922	71922-106LF	Right Angle, TH	0.76µm Gold or GXT® on contact, Tin on solder side	1= Standard	6	Tube
	71922-110LF				10	
	71922-114LF				14	
	71922-116LF				16	
	71922-120LF				20	
	71922-126LF				26	
	71922-134LF				34	
	2= Low Profile			71922-210LF	10	
				71922-214LF	14	
				71922-216LF	16	
				71922-220LF	20	
				71922-226LF	26	
				71922-230LF	30	

2.54mm

TECHNICAL INFORMATION



MATERIAL

- Housing: Thermoplastic, Grey
- Flammability Rating: UL94V-0
- Contact: Phosphor-bronze
- Plating: 0.76µm Gold or GXT® on Contact, Tin on Solder Side

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Wire Gauge: 30 to 26 AWG

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  Filq. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

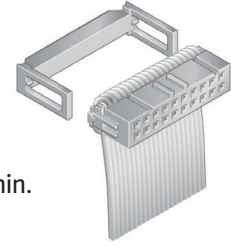
- Tube

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

ELECTRICAL PERFORMANCE

- Current Rating: 1A continuous
- Insulation Resistance: 1 x 10⁵MΩmin.
- Contact Resistance: 15mΩ max.
- Dielectric Withstanding Voltage: 1000Vrms min. (sea level)



SPECIFICATION

- Product Specification: BUS-12-095

PROCESSING INFORMATION

- Compatible with wave soldering processes

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30
Quickie® IDC Header	53

PART NUMBER SELECTOR

X X X X X		X	X X	X X
BASE PART NUMBER	STRAIN RELIEF	TOTAL POSITIONS	LEAD-FREE	
71600			LF	
Standard (mates with shrouded eject latch header latch 1)	0			
None (mates with shrouded eject latch header latch 2)	1			
Latching (mates with low profile headers)	6			
4 pos	04	26 pos	26	
6 pos	06	34 pos	34	
8 pos	08	40 pos	40	
10 pos	10	50 pos	50	
14 pos	14	60 pos	60	
16 pos	16	64 pos	64	
20 pos	20			

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Strain Relief	Total Positions	Packaging
71600	71600-006LF	Dual Row	0.76µm Gold or GXT® on contact, Tin on solder side	0= Standard	6	Tube
	71600-008LF				8	
	71600-010LF				10	
	71600-014LF				14	
	71600-016LF				16	
	71600-018LF				18	
	71600-020LF				20	
	71600-024LF				24	
	71600-026LF				26	
	71600-030LF				30	
	71600-034LF			34		
	71600-108LF			8	1= None	
	71600-110LF			10		
	71600-114LF			14		
	71600-116LF			16		
	71600-118LF			18		
	71600-120LF			20		
	71600-124LF			24		
	71600-126LF			26		
	71600-130LF			30		
71600-134LF	34					

TECHNICAL INFORMATION



MATERIAL

- Housing: Thermoplastic, Blue
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: 0.76µm Gold or GXT® on Contact, Tin on Solder Side

MECHANICAL PERFORMANCE

- Wire Gauge: 30 to 26 AWG

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Tube

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

ELECTRICAL PERFORMANCE

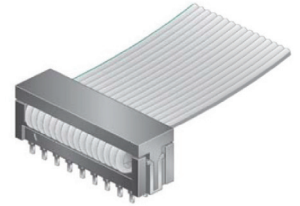
- Current Rating: 1A continuous
- Insulation Resistance: 1 x 10⁵MΩmin.
- Contact Resistance: 15mΩ max.
- Dielectric Withstanding Voltage: 1000Vrms min. (sea level)

SPECIFICATION

- Product Specification: GS-12-095

PROCESSING INFORMATION

- Compatible with wave, vapor-phase and soldering processes – low temperature



2.54mm

PART NUMBER SELECTOR

XXXXX	X	XX	XX		
BASE PART NUMBER	0	TOTAL POSITIONS	LEAD-FREE		
69830	6 pos	06	26 pos	26	LF
	8 pos	08	30 pos	30	
	10 pos	10	34 pos	34	
	14 pos	14	40 pos	40	
	16 pos	16	50 pos	50	
	18 pos	18	60 pos	60	
	20 pos	20	64 pos	64	
	24 pos	24			

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
69830	69830-006LF	Dual Row	0.76µm Gold or GXT® on contact, Tin on solder side	6	Tube
	69830-008LF			8	
	69830-010LF			10	
	69830-012LF			12	
	69830-016LF			16	
	69830-020LF			20	

PV[®] 2.54mm

Shrouded Header, Crimp-To-Wire Contacts & Housing

VERSATILE DESIGN FOR SUPERIOR PERFORMANCE

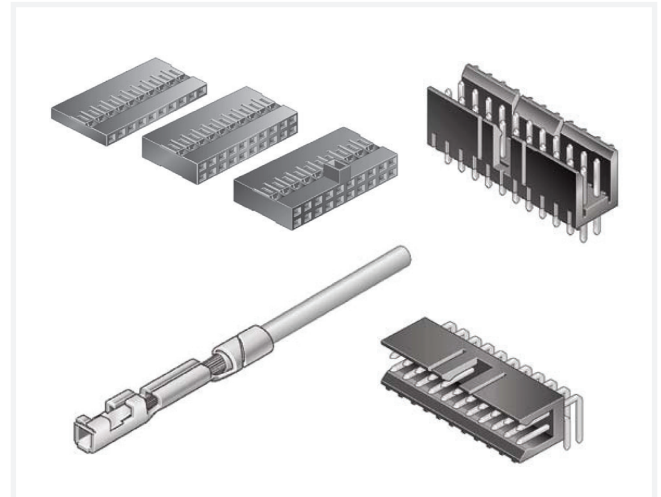
PV[®] is a comprehensive Crimp-To-Wire system that connects discrete wire to printed circuit boards. PV[®]'s versatile and modular system enables it to meet all Board-to-Board, Wire-to-Board and Wire-to-Wire interconnection needs.

Designed for 2.54mm up to 7.62mm grid stacking, PV[®] is especially suitable to satisfy high density and high performance needs. The patented female contact offers outstanding electrical and mechanical properties to satisfy all needs.

- High Temperature shrouded header enables passive latching system
- Unique dual-metal receptacle contact maintains contact pressure through 1000 mating cycles
- Choice of 3 different spring pressures for customization of insertion and withdrawal forces

FEATURES

- Shrouded header side walls engage with the sides of the Mini-Latch housing
- 2 wall header design
- Keyed Mini-Latch housing and header keyways
- Brass contact body
- Beryllium copper spring
- Unique dual-metal receptacle contact
- Choice of 3 different spring pressures



TARGET MARKETS



BENEFITS

- Provides additional retention
- Cost-efficient
- Provides mechanical benefits
- Offers polarization to prevent mismatching
- Ensures reliable, gas-tight crimp termination
- Ensures high normal force at the mating interface
- Maintains contact pressure through 1000 mating cycles
- Allows customization of insertion and withdrawal forces according to application needs

▶ PV® Shrouded Header

TECHNICAL INFORMATION



MATERIAL

- Housing: Thermoplastic, Black
- Flammability Rating: UL94V-0
- Contact: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact, Tin on Solder Side
 - 2= 0.38µm Gold or GXT® on Contact Area, Tin on Solder Side
 - 4= Tin

MECHANICAL PERFORMANCE

- Contact Retention To Housing: 17.76N min.

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Plastic Bags

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

ELECTRICAL PERFORMANCE

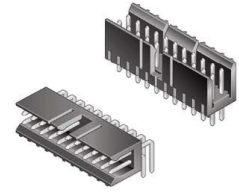
- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATION

- Product Specification: BUS-12-067, GS-12-75
- Application Specification: TA-531

PROCESSING INFORMATION

- Compatible with wave soldering processes



MATING INFORMATION

Product	Page
PV® Crimp-to-Wire Contacts	57
PV® Crimp-to-Wire Housing	59

PART NUMBER SELECTOR

X X X X X		X	X X	X X X	HLF
BASE PART NUMBER		PLATING CODE	TOTAL POSITIONS	HALOGEN AND LEAD-FREE	HLF
Single Row, Vertical	69167	0.76µm Gold or GXT® on contact, Tin on solder side 0.38µm Gold or GXT® on contact area, Tin on solder side Tin	1 2 4	Single Row	03 to 15
Dual Row, Vertical	69168			Dual Row	06 to 30
Single Row, Right Angle	78208				
Dual Row, Right Angle	78207				



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
69167	69167-203HLF	Single Row, Vertical	2= 0.38µm Gold or GXT® on contact, Tin on solder side	Mating Length: 5.84, Solder: 3.50	3	Plastic Bags
	69167-204HLF				4	
	69167-205HLF				5	
	69167-206HLF				6	
	69167-208HLF				8	
69168	69168-206HLF	Dual Row, Vertical	2= 0.38µm Gold or GXT® on contact, Tin on solder side	Mating Length: 5.84, Solder: 3.50	6	Plastic Bags
	69168-208HLF				8	
	69168-210HLF				10	
	69168-212HLF				12	
	69168-216HLF				16	

TECHNICAL INFORMATION

MATERIAL

- Contact: Brass Body with Beryllium-copper Spring
- Pin: Brass
- Plating: Gold or Tin over 1.27µm Nickel



MECHANICAL PERFORMANCE

- Insertion Force per Gold contact:
 - 2.35N (240gf) – Standard spring
 - 4.41N (450gf) – High spring
 - 10.79N (1100gf) – Ultra high spring
- Insertion Depth:
 - Discrete wire: 3.5mm min. to 5.3mm max. [provides .381mm wipe]
 - Crimp-to-Wire Housing: 4.2mm min. to 5.3mm max. [provides .381mm wipe in housing]

PACKAGING

- Reels
- Boxes – Loose piece

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU



2.54mm

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Current Rating: 3A Continuous Depending On Wire Size
- Insulation Resistance: 5000MΩ min.
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATION

- Product Specification: BUS-12-067
- Application Specification: TA-75, TA-146 – Contact, TA-295, TA-228 and TA-302

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

PART NUMBER SELECTOR

X X X X X X X X X X

BASE PART NUMBER **002** **LEAD-FREE** **LF**

Step 1 Step 2 Step 3

Application
40 – 72 Contacts per housing
10 – 50 Contacts per housing
2 – 20 Contacts per housing
Discrete contact

Spring Force
Standard
High
Ultra High
Ultra High

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

How to select the right contact
Step 1: Select Application
Step 2: Select Spring Force
Step 3: Select Wire Size



SELECTED PART NUMBERS

Base Part Number	Part Number	Plating	Wire Gauge (AWG)	Application Spring Force	Packaging
47437	47437-002LF	Gold or Tin over 1.27µm Nickel	32 to 28	High	Loose Pieces
47439	47439-002LF	Gold or Tin over 1.27µm Nickel	26 to 22	High	Loose Pieces
47457	47457-002LF	Gold or Tin over 1.27µm Nickel	26 to 22	Standard	Loose Pieces
47564	47564-002LF	Gold or Tin over 1.27µm Nickel	32 to 28	Ultra High	Loose Pieces
47565	47565-002LF	Gold or Tin over 1.27µm Nickel	26 to 22	Ultra High	Loose Pieces
47566	47566-002LF	Gold or Tin over 1.27µm Nickel	20 to 18	Ultra High	Loose Pieces

PV® Crimp-To-Wire Housing

TECHNICAL INFORMATION



MATERIAL

- Housing: Thermoplastic, Black
- Flammability Rating: UL94V-0

MECHANICAL PERFORMANCE

- Contact Retention To Housing: 17.76N min.
- Insertion depth:
 - 4.2mm min. to 5.3mm max.
[provides .381mm wipe in housing]

APPROVALS AND CERTIFICATIONS

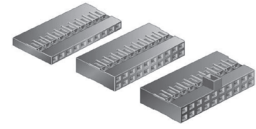
-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Plastic Bags

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C



ELECTRICAL PERFORMANCE

- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 1000Vrms

SPECIFICATION

- Product Specification: GS-12-067
- Application Specification: TA-531

PROCESSING INFORMATION

- Compatible with wave soldering processes

MATING INFORMATION

Product	Page
BergStik® Unshrouded Header, Vertical, Standard Size	26
BergStik® Unshrouded Header, Vertical, Special Size	30

PART NUMBER SELECTOR

XXXXX		XXX		XXX		ELF							
BASE PART NUMBER		TOTAL POSITIONS		LEAD-FREE									
Single Row	65039												
Single Row, Center Key	78211												
Dual Row	65043												
Dual Row, Center Key	65846												
		Single Row		Dual Row		Single Row		Dual Row					
		Total Positions	65039	78211	Total Positions	65043	65846	Total Positions	65043	65846			
		-	-	-	4	035	-	19	018	-	40	017	024
		2	035	-	6	034	-	20	017	-	42	016	025
		3	034	003	8	033	-	21	016	-	44	015	004
		4	033	004	10	032	-	22	015	-	46	014	026
		5	032	005	12	031	017	23	014	-	48	013	027
		6	031	006	14	030	-	24	013	-	50	012	-
		7	030	007	16	029	-	25	012	-	52	011	028
		8	029	008	18	028	-	26	011	-	54	010	-
		9	028	009	20	027	-	27	010	-	56	009	029
		10	027	010	22	026	018	28	009	-	58	008	030
		11	026	011	24	025	-	29	008	-	60	007	013
		12	025	012	26	024	019	30	007	-	62	006	031
		13	024	013	28	023	020	31	006	-	64	005	009
		14	023	014	30	022	-	32	005	-	66	004	032
		15	022	015	32	021	021	33	004	-	68	003	033
		16	021	-	34	020	022	34	003	-	70	002	034
		17	020	-	36	019	023	35	002	-	72	001	035
		18	019	-	38	018	-	36	001	-	74	-	-



SELECTED PART NUMBERS

Base Part Number	Part Number	Type	Total Positions	Packaging
65039	65039-001ELF	Single Row	36	Plastic Bags
	65039-003ELF		34	
	65039-005ELF		32	
	65039-010ELF		27	
	65039-012ELF		25	
	65039-016ELF		21	
	65039-017ELF		20	
	65039-020ELF		17	
	65039-023ELF		14	
	65039-026ELF		11	
	65039-027ELF		10	
	65039-029ELF		8	
	65039-030ELF		7	
	65039-031ELF		6	
	65039-032ELF		5	
	65039-033ELF		4	
	65039-034ELF		3	
65039-035ELF	2			
65043	65043-001ELF	Dual Row	72	Plastic Bags
	65043-005ELF		64	
	65043-012ELF		50	
	65043-017ELF		40	
	65043-020ELF		34	
	65043-022ELF		30	
	65043-023ELF		28	
	65043-024ELF		26	
	65043-026ELF		22	
	65043-027ELF		20	
	65043-028ELF		18	
	65043-029ELF		16	
	65043-030ELF		14	
	65043-031ELF		12	
	65043-032ELF		10	
	65043-033ELF		8	
	65043-034ELF		6	
65043-035ELF	4			

2.54mm

Minitek® 2.00mm Headers, Receptacles, Crimp-To-Wire & Shunts

HIGH VIBRATION ENDURANCE CONNECTOR

Minitek® is the most complete system on the market with a wide range of headers and receptacles. Minitek®'s fully intermateable modular system meets all Board-to-Board, Wire-to-Board interconnection needs.

Minitek® family's latest extension includes receptacles in vertical and right angle configuration for coplanar and single row applications. SMT and through hole options are also available, with a selection of 2 to 25 positions for single row and 4 to 50 positions for dual row.

- Up to 25 pins per row available
- Single and double row types
- Tin and selective gold plating options
- High Temperature housing
- Coplanarity 0.1

FEATURES

- Modular system
- 2.00mm pitch
- Lowest profile eject latch header
- Less need for solder paste
- Standoffs design
- 0.50mm square drawn wire pin
- High Temperature material



BENEFITS

- Fully intermateable connector system
- Space-saving, 38% less board space compared to 2.54mm connectors
- Meets specific design requirements where there is space constraint
- Facilitates automatic placement
- Enables easy cleaning of the PCB
- Provides four smooth mating surfaces
- Withstands reflow soldering process



▶ Minitek® Unshrouded Header, Vertical

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - G=0.76µm Gold or GXT® on Contact, Tin on Solder
 - F=0.38µm Gold or GXT® on Contact, Tin on Solder

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

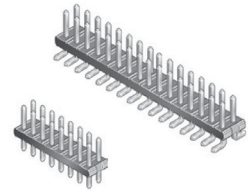
- Standard: TH in Tube (04 to 06 pos. packed in box)
- SMT in Tape/Reel
- Optional: SMT in Tube

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ max.
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



SPECIFICATION

- Product Specification: DPS-12-011 and GS-12-163
- Packaging Specification: TA-884

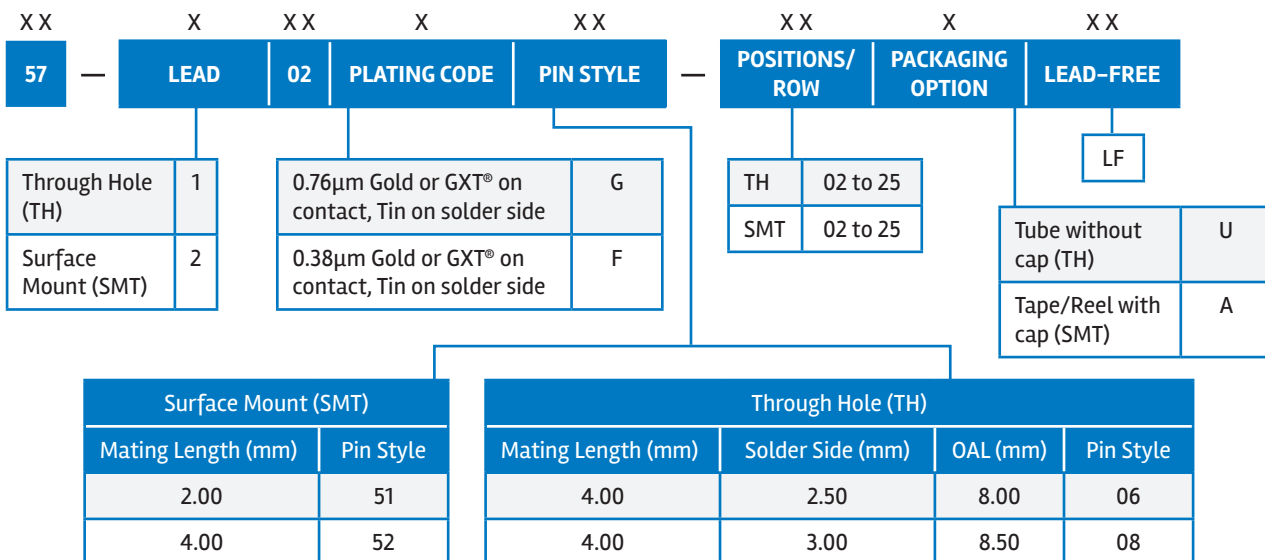
PROCESSING INFORMATION

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

MATING INFORMATION

Product	Page
Minitek® Receptacle	67
Minitek® IDC Receptacle	73
Minitek® Shunts	74

PART NUMBER SELECTOR





SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
57102	57102-F08-02LF	Dual Row, TH	F= 0.38µm Gold or GXT® on contact, Tin on solder	08= Mating Length: 4.00, Solder: 3.00, Overall: 8.50	4	Bulk
	57102-F08-03LF				6	
	57102-F08-04ULF				8	Tube w/o pick up cap
	57102-F08-05ULF				10	
	57102-F08-06ULF				12	
	57102-F08-07ULF				14	
	57102-F08-08ULF				16	
	57102-F08-09ULF				18	
	57102-F08-10ULF				20	
	57102-F08-11ULF				22	
	57102-F08-12ULF				24	
	57102-F08-25ULF				50	

2.00mm



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
57202	57202-F52-02ALF	Dual Row, SMT	F= 0.38µm Gold or GXT® on contact, Tin on solder	52= Mating Length: 4.00	4	Tube with pick up cap
	57202-F52-03ALF				6	
	57202-F52-04ALF				8	
	57202-F52-05ALF				10	
	57202-F52-06ALF				12	
	57202-F52-07ALF				14	
	57202-F52-09ALF				18	
	57202-F52-10ALF				20	



▶ Minitek® Shrouded Header, Vertical

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, Cream-colored
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - S = 0.38µm Gold/GXT® on Contact Area, 2µm min. Matte Tin on Tail
 - G = 0.76µm Gold/GXT® on Contact Area, 2µm min. Matte Tin on Tail
 - F = Gold Flash on contact area, 2µm min. Matte Tin on Tail
 - T = 2.0-6.0µm full Matte Tin on Tail

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

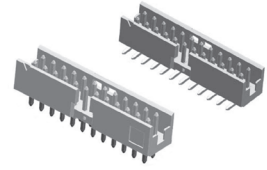
- Standard: TH in Tube
- SMT in Tape/Reel
- Optional: Tube (SMT)

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 2A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ max.
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



SPECIFICATION

- Product Specification: DPS-12-011 and GS-12-163
- Packaging Specification: TA-884

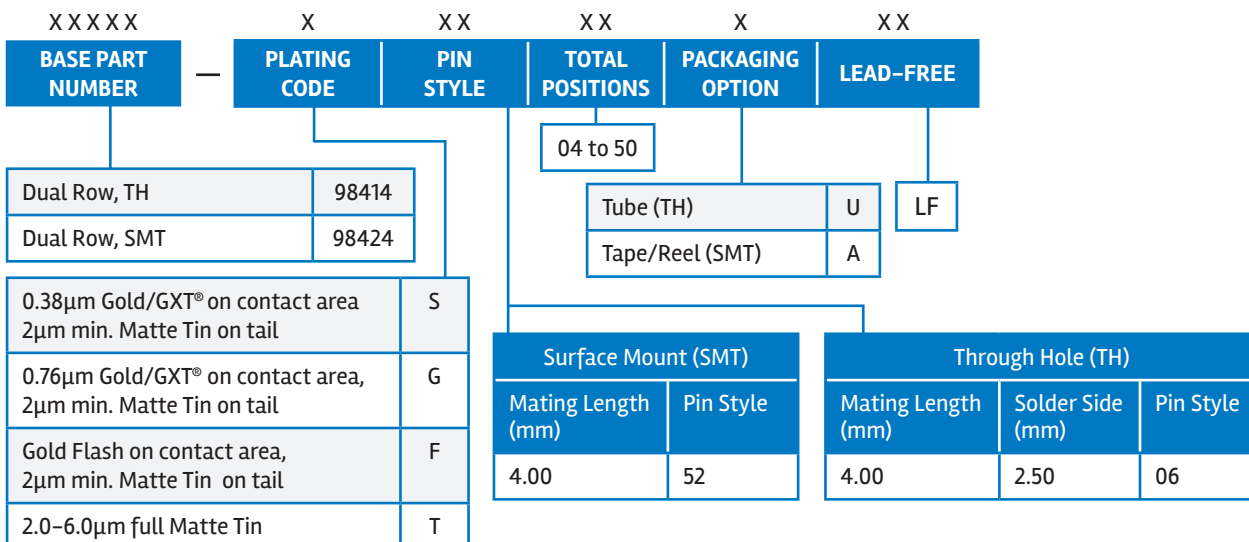
PROCESSING INFORMATION

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

MATING INFORMATION

Product	Page
Minitek® Receptacle	67
Minitek® IDC Receptacle	73
Minitek® Crimp-to-Wire Contacts and Housing, Active Latch	71
Minitek® Shunts	74

PART NUMBER SELECTOR





SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Pin Style/ Mating Dimension (mm)	Total Positions	Packaging
98414	98414-F06-06ULF	Dual Row, TH	F= Gold flash on contact area 2µm min. matte Tin on tail	06= Mating Length: 4.00, Solder: 2.50	6	Tube
	98414-F06-08ULF				8	
	98414-F06-10ULF				10	
	98414-F06-12ULF				12	
	98414-F06-14ULF				14	
	98414-F06-16ULF				16	
	98414-F06-18ULF				18	
	98414-F06-20ULF				20	
98424	98424-F52-06ALF	Dual Row, SMT	F= Gold flash on contact area 2µm min. matte Tin on tail	52= Mating Length: 4.00	6	Tape/Reel
	98424-F52-08ALF				8	
	98424-F52-10ALF				10	
	98424-F52-12ALF				12	
	98424-F52-14ALF				14	
	98424-F52-16ALF				16	
	98424-F52-18ALF				18	
	98424-F52-20ALF				20	

2.00mm

▶ Minitek® Unshrouded Header, Pin-in-Paste

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature, Black Thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - G = 0.76µm GXT® on Contact Area, Tin on Solder Side
 - F = Gold Flash on Contact Area, Tin on Solder Side

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

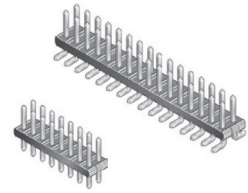
- Tubes (04 to 06 pos. packed in box)
- Tape on Reel with pick up cap

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ max.
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



SPECIFICATION

- Product Specification: DPS-12-011 and GS-12-163
- Packaging Specification: TA-895
- Reflow Profile: TA-842

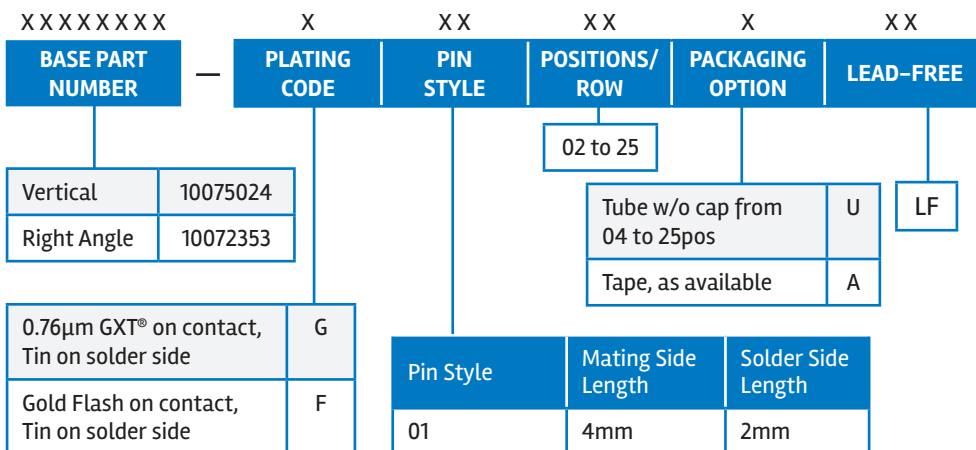
PROCESSING INFORMATION

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

MATING INFORMATION

Product	Page
Minitek™ Crimp-To-Wire Contact and Housing, Active Latch	67
Minitek™ Vertical Receptacles	73
Minitek™ Shunts	71
Minitek™ IDC Receptacles	74

PART NUMBER SELECTOR



▶ Minitek® Shrouded Header, Pin-in-Paste

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature, Black Thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating:
 - G = 0.76µm GXT® on Contact Area, Tin on Solder Side
 - F = Gold Flash on Contact Area, Tin on Solder Side

MECHANICAL PERFORMANCE

- Durability: 100 Mating Cycles

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

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

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

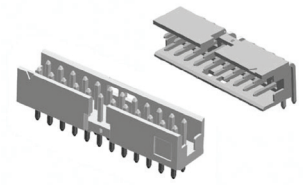
- Current Rating: 3A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ max.
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V

SPECIFICATION

- Product Specification: DPS-12-011 and GS-12-163
- Packaging Specification: TA-895
- Reflow Profile: TA-842

PROCESSING INFORMATION

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

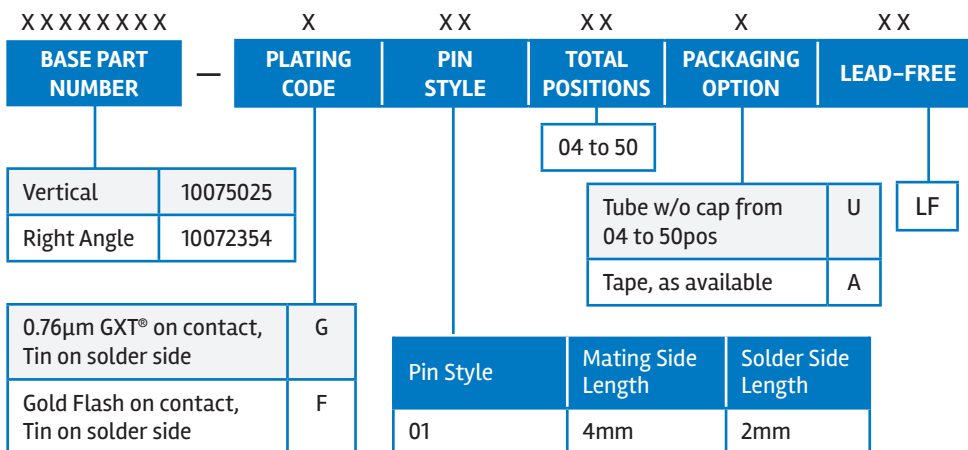


2.00mm

MATING INFORMATION

Product	Page
Minitek™ Crimp-To-Wire Contact and Housing, Active Latch	67
Minitek™ Vertical Receptacles	73
Minitek™ Shunts	71
Minitek™ IDC Receptacles	74

PART NUMBER SELECTOR



▶ Minitek® Shrouded Header, Eject Latch

TECHNICAL INFORMATION



MATERIAL

- Housing: Body, cream-colored LCP, Latch Black PA
- Flammability Rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: G = 0.76µm GXT® on Contact Area, Tin on Solder Side

MECHANICAL PERFORMANCE

- Latching Retention Force: 30N min.

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

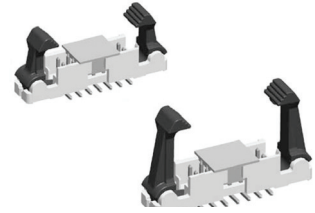
- Standard: Tubes

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 2A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ max.
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



SPECIFICATION

- Product Specification: DPS-12-011 and GS-12-163
- Packaging Specification: TA-895
- Reflow Profile: TA-842

PROCESSING INFORMATION

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

MATING INFORMATION

Product	Page
Minitek™ IDC Receptacles	73

PART NUMBER SELECTOR

XXXXXXX — X XX XX X XX

BASE PART NUMBER		PLATING CODE	PIN STYLE	TOTAL POSITIONS		PACKAGING OPTION	LEAD-FREE			
Vertical	10078991	G	0	06	24	Tube w/o cap for TH	U			
Right Angle	10078995			08	30					
0.76µm GXT® on contact, Tin on solder side		2	3	10	40			Tape, as available & SMT only	A	
				2.5mm TH	12			44	Tube with cap, SMT only	B
						LF				



Pin Style	Solder Side Length
0	SMT
2	2.5mm TH
3	3.1mm TH

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Contact: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact, Tin on Solder
 - 3= 0.38µm Gold or GXT® on Contact, Tin on Solder

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Standard: TH in Tube
- SMT in Tape/Reel
- Optional: Tube (SMT)

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

SPECIFICATION

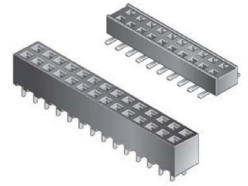
- Product Specification: GS-12-067 and DPS-12-011 – 63453

PROCESSING INFORMATION

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

ELECTRICAL PERFORMANCE

- Current Rating: 2A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance:
 - 20mΩ
 - 25mΩ – 63453
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



MECHANICAL PERFORMANCE

- Contact Retention to Housing:
 - 2.20N (227gf) min.
 - 4.90N (500gf) min. – 63453
- Insertion Force per Contact:
 - 1.80N (184gf) max.
 - 1.95N (200gf) – 63453
- Withdrawal Force per Contact: 0.20N (20gf) min.
- Insertion Depth:
 - 4.50mm height: 3.00mm min. to 4.30mm max. [provides .381mm wipe]
 - 2.30mm height – top entry: 1.30mm min. to 2.20mm max. [provides .381mm wipe]
 - 2.30mm height – bottom entry: 1.40mm min. to 2.20mm max. [provides .381mm wipe] plus board thickness

MATING INFORMATION

Product	Page
Minitek® Unshrouded Header, Vertical	62

PART NUMBER SELECTOR

XXXXX	X	XX	XX	XX
BASE PART NUMBER	PLATING CODE	TOTAL POSITIONS	PACKAGING OPTION	LEAD-FREE
	0.76µm Gold or GXT® on contact, Tin on solder side	1	Tube (TH)	LF
	0.38µm Gold or GXT® on contact, Tin on solder side	3	Tape/Reel (SMT)	TR
Surface Mount (SMT)	Height: 4.50mm	55510	Top Entry	04 to 50
	Top Entry		Bottom Entry	40 to 30
	Height: 2.30mm	55508		
	Top Entry			
	Height: 2.30mm			
Bottom Entry	91596			

 Core Range

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
55510	55510-304TRLF	Top Entry, Height 4.50mm, SMT	3= 0.38µm Gold or GXT® on contact, Tin on solder	4	Tape/Reel
	55510-306TRLF			6	
	55510-308TRLF			8	
	55510-310TRLF			10	
	55510-312TRLF			12	
	55510-316TRLF			16	
	55510-320TRLF			20	

▶ Minitek® Receptacle (New Configurations)

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, Black, UL94V-0
- Pin: Phosphor Bronze
- Plating:
 - 1= 0.76µm Gold/GXT® on Contact Area and 2µm min. Matte Tin on Tail
 - 2= 0.38µm Gold/GXT® on Contact Area and 2µm min. Matte Tin on Tail
 - 3= 0.20µm Gold/GXT® on Contact Area and 2µm min. Matte Tin on Tail
 - 9= 1.27µm Nickel min. under layer and 2µm Matte Tin on Tail

PACKAGING

- Tube
- Tape

ENVIRONMENTAL

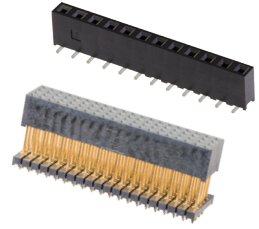
- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 1A (all contacts powered); 2A (one single contact powered)
- Insulation Resistance: 1000MΩ min.
- Dielectric Withstanding Voltage: 650V

SPECIFICATION

- Product Specification: GS-12-1326



MECHANICAL PERFORMANCE

- Durability: 100 mating cycles

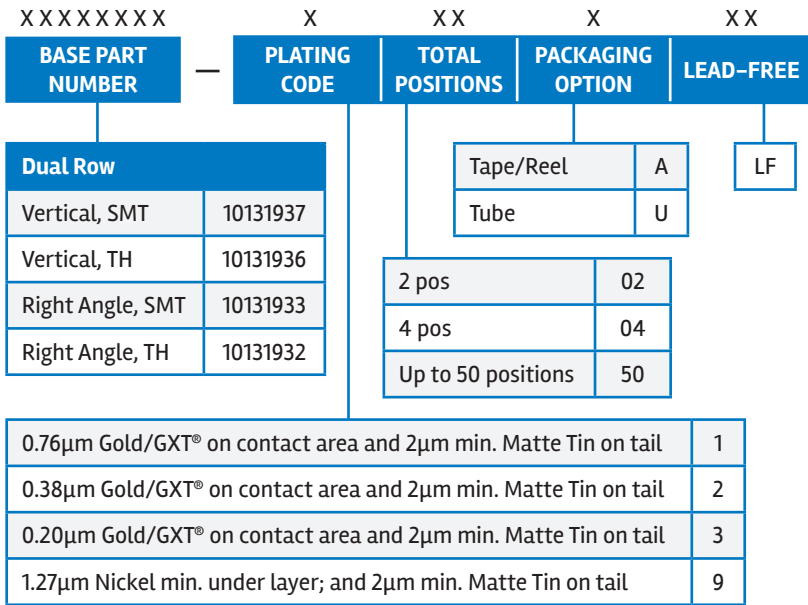
APPROVALS AND CERTIFICATIONS

- UL pending

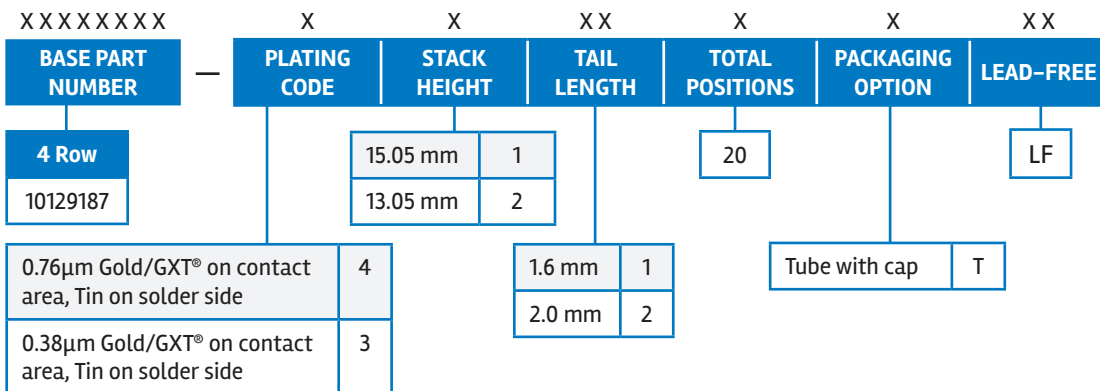
PART NUMBER SELECTOR – SINGLE ROW

X X X X X X X X		X	XX	X	XX															
BASE PART NUMBER		PLATING CODE	TOTAL POSITIONS	PACKAGING OPTION	LEAD-FREE															
<table border="1"> <thead> <tr> <th colspan="2">Single Row</th> </tr> </thead> <tbody> <tr> <td>Vertical, SMT</td> <td>10131935</td> </tr> <tr> <td>Vertical, TH</td> <td>10131934</td> </tr> <tr> <td>Right Angle, SMT</td> <td>10131930</td> </tr> <tr> <td>Right Angle, TH</td> <td>10131931</td> </tr> </tbody> </table>		Single Row		Vertical, SMT	10131935	Vertical, TH	10131934	Right Angle, SMT	10131930	Right Angle, TH	10131931			<table border="1"> <tbody> <tr> <td>Tape/Reel</td> <td>A</td> </tr> <tr> <td>Tube</td> <td>U</td> </tr> </tbody> </table>	Tape/Reel	A	Tube	U	<table border="1"> <tbody> <tr> <td>LF</td> </tr> </tbody> </table>	LF
Single Row																				
Vertical, SMT	10131935																			
Vertical, TH	10131934																			
Right Angle, SMT	10131930																			
Right Angle, TH	10131931																			
Tape/Reel	A																			
Tube	U																			
LF																				
0.76µm Gold/GXT® on contact area and 2µm min. Matte Tin on tail	1	2 pos	02	14 pos	14															
		3 pos	03	15 pos	15															
		4 pos	04	16 pos	16															
0.38µm Gold/GXT® on contact area and 2µm min. Matte Tin on tail	2	5 pos	05	17 pos	17															
		6 pos	06	18 pos	18															
		7 pos	07	19 pos	19															
0.20µm Gold/GXT® on contact area and 2µm min. Matte Tin on tail	3	8 pos	08	20 pos	20															
		9 pos	09	21 pos	21															
		10 pos	10	22 pos	22															
1.27µm Nickel min. under layer; 2mm Matte Tin on tail	9	11 pos	11	23 pos	23															
		12 pos	12	24 pos	24															
		13 pos	13	25 pos	25															

PART NUMBER SELECTOR – DUAL ROW



PART NUMBER SELECTOR – 4 ROW



2.00mm

▶ Minitek® Receptacle (New Configurations)



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
10131935	10131935-202ULF	Single Row, Vertical, SMT	2= 0.38µm Gold or GXT® on contact, Tin on solder	2	Tube
	10131935-206ULF			6	
	10131935-208ULF			8	
	10131935-210ULF			10	
	10131935-216ULF			16	
	10131935-220ULF			20	
10131931	10131931-202ULF	Single Row, Right Angle, TH	2= 0.38µm Gold or GXT® on contact, Tin on solder	2	Tube
	10131931-206ULF			6	
	10131931-208ULF			8	
	10131931-210ULF			10	
	10131931-216ULF			16	
	10131931-220ULF			20	
10131932	10131932-204ULF	Dual Row, Right Angle, TH	2= 0.38µm Gold or GXT® on contact, Tin on solder	4	Tube
	10131932-206ULF			6	
	10131932-208ULF			8	
	10131932-210ULF			10	
	10131932-216ULF			16	
	10131932-220ULF			20	
10131933	10131933-204ULF	Dual Row, Right Angle, SMT	2= 0.38µm Gold or GXT® on contact, Tin on solder	4	Tube
	10131933-206ULF			6	
	10131933-208ULF			8	
	10131933-210ULF			10	
	10131933-216ULF			16	
	10131933-220ULF			20	
10131934	10131934-202ULF	Single Row, Vertical, TH	2= 0.38µm Gold or GXT® on contact, Tin on solder	2	Tube
	10131934-206ULF			6	
	10131934-208ULF			8	
	10131934-210ULF			10	
	10131934-216ULF			16	
	10131934-220ULF			20	

TECHNICAL INFORMATION



MATERIAL

- Housing: Polyamide, Black
- Flammability Rating: UL94V-0
- Plating:
 - 1= 0.76µm Gold or GXT® on Contact, Tin on Solder
 - 0= Gold flash

MECHANICAL PERFORMANCE

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

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Standard: Plastic Bags

ENVIRONMENTAL

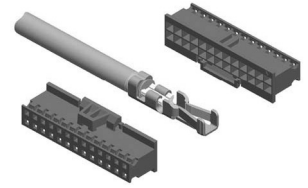
- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Insulation Resistance: 1 x 10⁵MΩ min.
- Dielectric Withstanding Voltage: 500V

SPECIFICATION

- Product Specification: GS-12-415

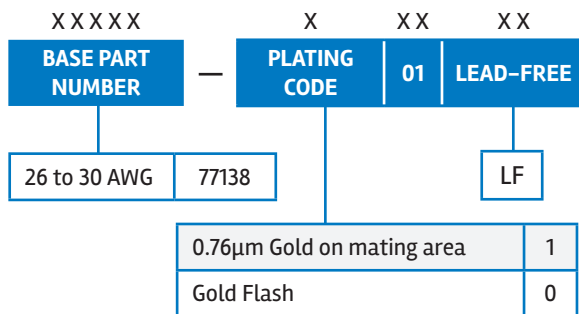


2.00mm

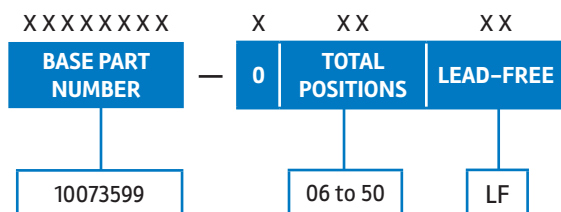
MATING INFORMATION

Product	Page
Minitek® Unshrouded Header, Vertical	62
Minitek® Shrouded Header, Vertical	67

PART NUMBER SELECTOR – CONTACTS



PART NUMBER SELECTOR – HOUSING



▶ Minitek® Crimp-To-Wire Contact and Housing, Active Latch



SELECTED PART NUMBERS

CONTACTS

Base Part Number	Part Number	Plating	Wire Gauge (AWG)	Packaging
77138	77138-001LF	Gold flash	30 to 26	Plastic Bags
	77138-101LF	0.76µm Gold or GXT® on contact, Tin on solder		

HOUSING

Base Part Number	Part Number	Plating	Total Positions	Packaging
10073599	10073599-006LF	Dual Row, Active Latch	6	Plastic Bags
	10073599-008LF		8	
	10073599-010LF		10	
	10073599-012LF		12	
	10073599-014LF		14	
	10073599-016LF		16	
	10073599-018LF		18	
	10073599-020LF		20	

TECHNICAL INFORMATION



MATERIAL

- Housing: Thermoplastic, Black
- Flammability Rating: UL94V-0
- Contact: Phosphor-bronze
- Plating:
 - 0.76µm Gold or GXT® on Contact, Tin on Solder
 - 0.20µm Gold or GXT® on Contact, Tin on Solder
 - Gold over 1.27µm Nickel

MECHANICAL PERFORMANCE

- Insertion Depth: 2.55mm min. to 4.57mm max. [provides .381mm wiper]

APPROVALS AND CERTIFICATIONS

-  File No. E66906
-  File No. LR46923
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

- Tube

ENVIRONMENTAL

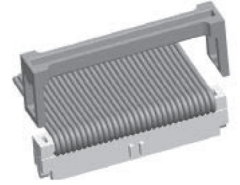
- Operating Temperature: -40°C to +105°C

ELECTRICAL PERFORMANCE

- Current Rating: 1A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 30mΩ
- Dielectric Withstanding Voltage: 650V
- Wire Gauge: 30 to 26AWG

SPECIFICATION

- Product Specification: GS-12-115

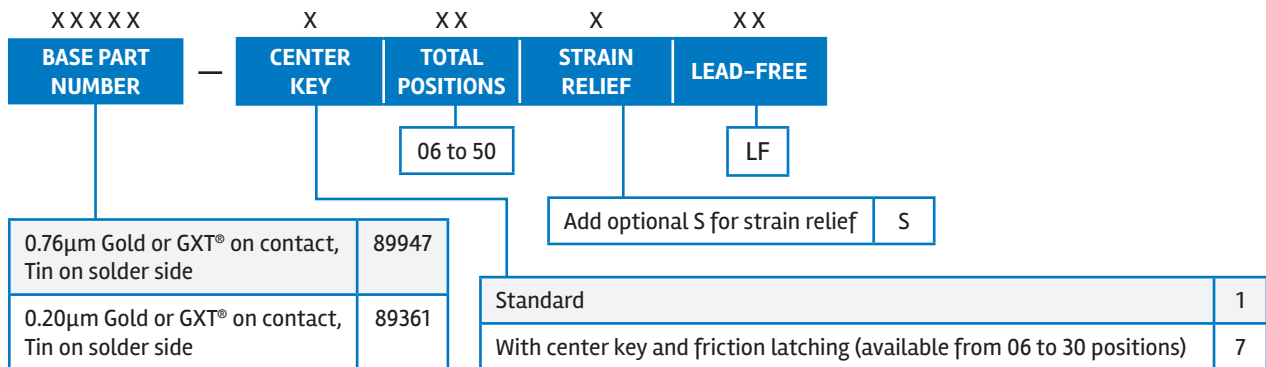


2.00mm

MATING INFORMATION

Product	Page
Minitek® Unshrouded Header, Vertical	62
Minitek® Shrouded Header, Vertical	67

PART NUMBER SELECTOR



SELECTED PART NUMBERS

Base Part Number	Part Number	Configuration	Plating	Center Key	Total Positions	Packaging
89361	89361-106LF	Dual Row	0.20µm Gold or GXT® on contact, Tin on solder side	1= Standard	6	Tube
	89361-108LF				8	
	89361-110LF				10	
	89361-112LF				12	
	89361-706LF			7= With Center Key and Friction Latching	6	
	89361-708LF				8	
	89361-710LF				10	
	89361-712LF				12	

TECHNICAL INFORMATION



MATERIAL

- Housing: High Temperature Thermoplastic, Black
- Flammability Rating: UL94V-0
- Contact: Phosphor-bronze
- Plating:
 - 1= 0.76µm Gold or GXT® on contact, Tin on solder
 - 3= 0.38µm Gold or GXT® on contact, Tin on solder

MECHANICAL PERFORMANCE

- Insertion Force per Contact: 6.41N (650gf) max.
- Withdrawal Force per Contact: 0.49N (50gf) min.
- Insertion Depth: 2.24mm min. [provides.381mm wipe]

APPROVALS AND CERTIFICATIONS

-  File no. E66906
-  File no. LR46923
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

PACKAGING

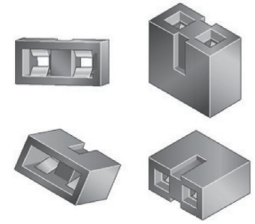
- Plastic Bags

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 1A continuous
- Insulation Resistance: 1 x 10⁵MΩ min.
- Contact Resistance: 25mΩ
- Dielectric Withstanding Voltage: 650V
- Voltage Rating: 200V



SPECIFICATION

- Product Specification: DPS-12-012

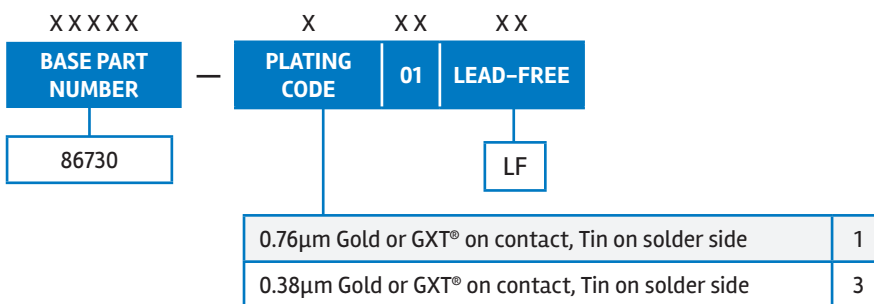
PROCESSING INFORMATION

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

MATING INFORMATION

Product	Page
Minitek® Unshrouded Header, Vertical	62
Minitek® Shrouded Header, Vertical	67

PART NUMBER SELECTOR



SELECTED PART NUMBERS

Part Number	Description	Plating	Total Positions	Packaging
86730-301LF	Single Row, Centerline	3= 0.38µm Gold or GXT® on contact, Tin on solder side	2	Plastic Bags

Minitek® 1.27mm

Headers, Receptacle, IDC Header & Receptacle, Eject Header

COMPACT BOARD-TO-BOARD CONNECTOR

Minitek127® is an extensive modular solution able to cover all customer needs, save time and qualification cost. The halogen-free product is offered in vertical, right angle, surface mount and through hole configurations. Locating peg option for SMT, different plating variations and up to 100 positions are available.

- Top and bottom entry configurations for mezzanine applications
- Standoff design allows cleaning to eliminate soldering contaminations
- 3 duplex plating ensures cost efficiency
- Customized selective pin loading available
- Stack heights for parallel board-to-board are 5.8mm, 6.0mm, 6.1mm and 6.9mm

FEATURES

- 3 duplex plating versions, 30u" ,15u" GXT®, 10u" Gold and Gold flash
- Both top and bottom entry configurations available
- Standoff design
- Locating peg option for SMT product
- Customizable stacking header
- Tape/Reel with pick up cap or tube without pick up cap



BENEFITS

- Enables applications in environments ranging from less demanding to severe
- Useful for mezzanine applications
- Allows cleaning to eliminate soldering contaminations
- Simplifies customer design and process
- Suitable for specific designs
- Facilitates automated pick and place assembly

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Resin, Halogen-free
- Contact: Copper Alloy
- Plating:
 - 1= Gold Flash on Contact
 - 4= 0.25µm Gold on Contact, Tin on Solder
 - 8= 0.76µm GXT® on Contact, Tin on Solder

MECHANICAL PERFORMANCE

- Durability: 100 Mating Cycles
- Mating Force: 2.2N max. per Contact
- Unmating Force: 0.2N min. per Contact

APPROVALS AND CERTIFICATIONS

- UL E66906

PACKAGING

- Tape/Reel
- Tube

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C
- Mixed Flowing Gas Class IIA
- Humidity: 95% relative humidity for 96 hours

ELECTRICAL PERFORMANCE

- Contact Resistance: 30MΩ
- Insulation Resistance: 1000MΩ min.
- Current Rating: 1.0A per contact
- Voltage Rating: 125VAC
- IDC Wire Gauge: 30AWG

SPECIFICATION

- Product Specification GS-12-629

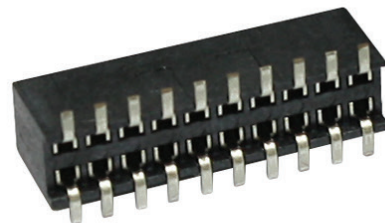
PART NUMBER SELECTOR

Minitek127®

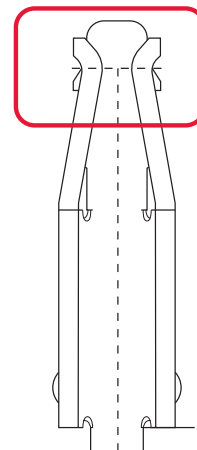
XXXXX	X	X	X
BASE PART NUMBER	TYPE	TERMINATION	ORIENTATION
20021			
Unshrouded header	1	TH 1	Vertical 1
Shrouded header	2	SMT 2	Right Angle 2
Receptacle	3	PIP 3	Vertical, alternative 3
IDC	4	N.A 4	Others 4
IDC header	5		
IDC eject header	6		
CTW	7		
Stacking header	8		
Customization	9		

MINITEK® 1.27MM DUAL ROW RECEPTACLE (P/N: 20021321)

Terminal beam design

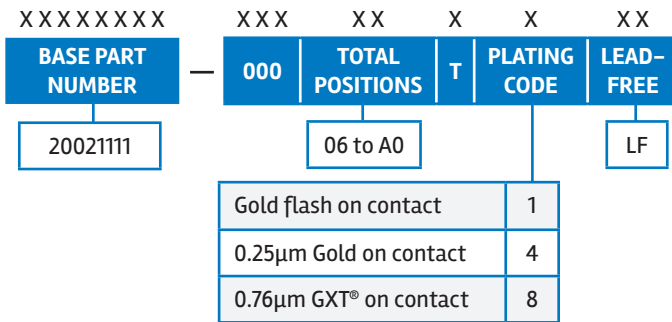


Terminal dual beam design – U shape terminal

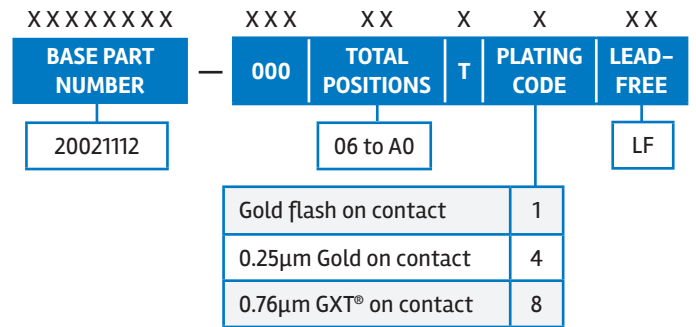


PART NUMBER SELECTOR – UNSHROUDED HEADER

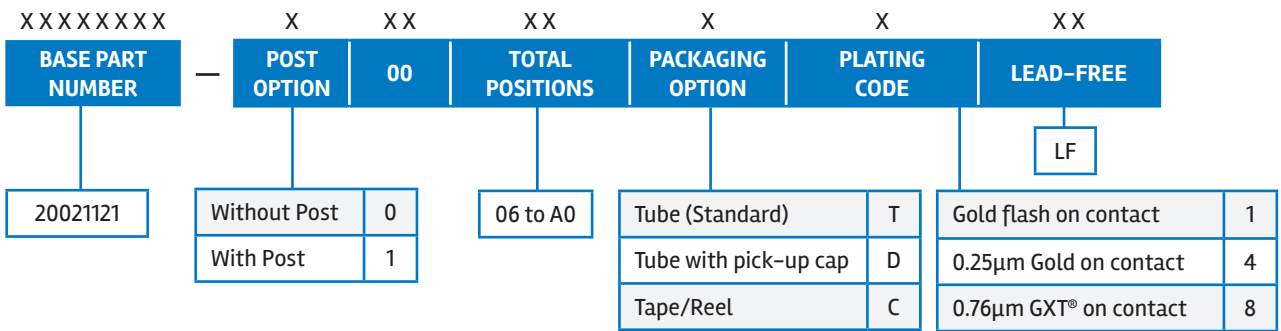
Minitek127® Unshrouded Header, Vertical, TH



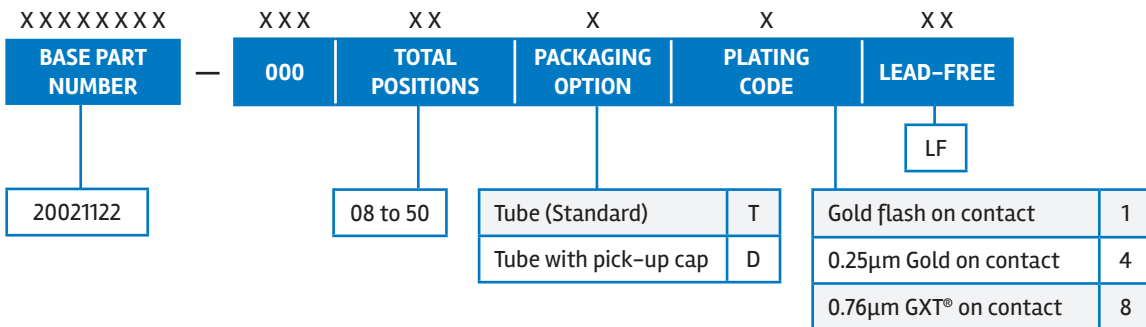
Minitek127® Unshrouded Header, Right Angle, TH



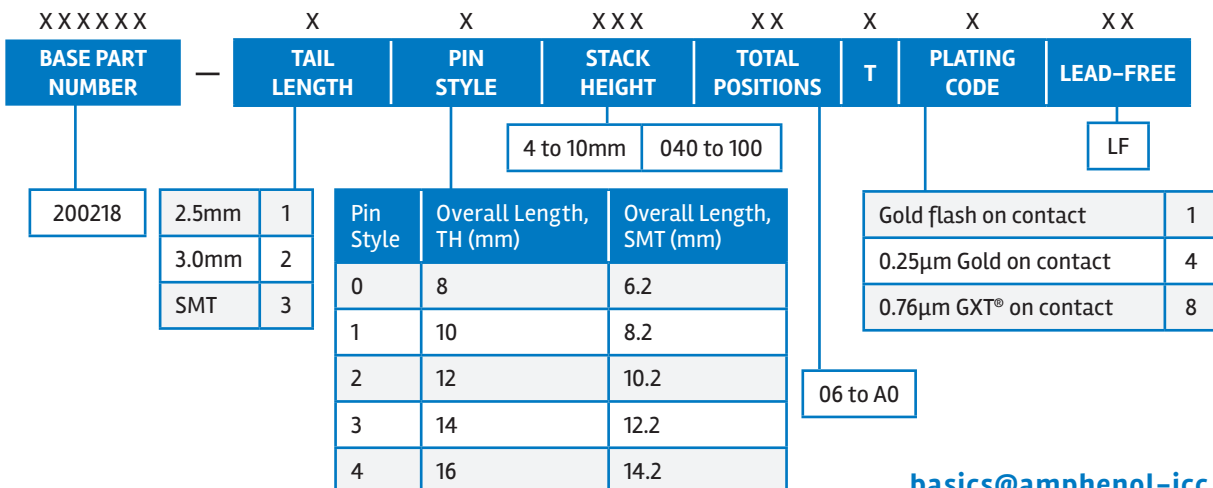
Minitek127® Unshrouded Header, Vertical, SMT



Minitek127® Unshrouded Header, Right Angle, SMT

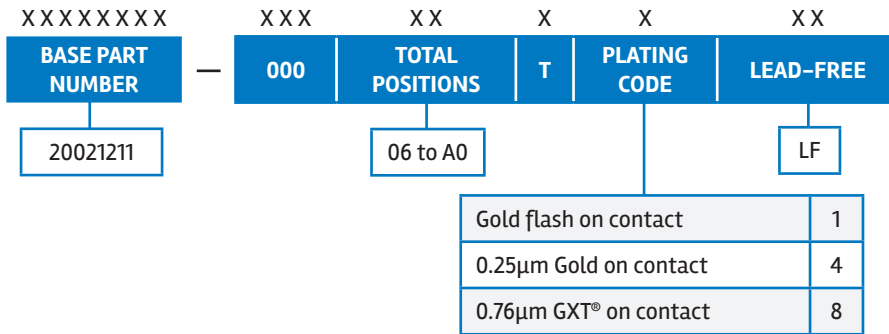


Minitek127® Unshrouded Header, Stacking

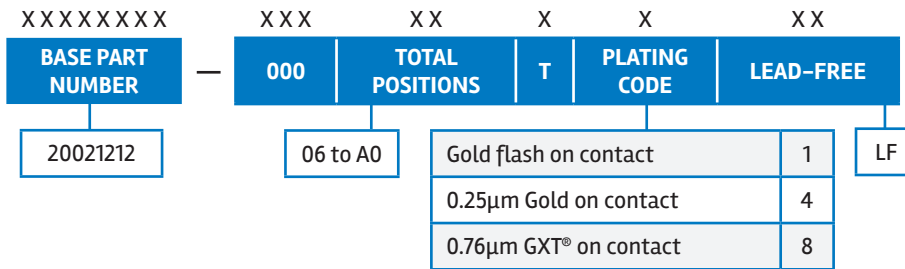


PART NUMBER SELECTOR– SHROUDED HEADER

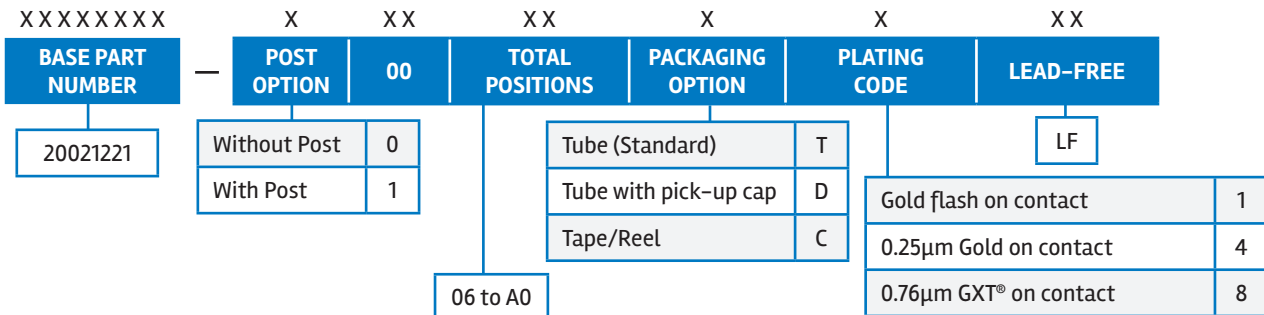
Minitek127® Shrouded Header, Vertical, TH



Minitek127® Shrouded Header, Right Angle, TH

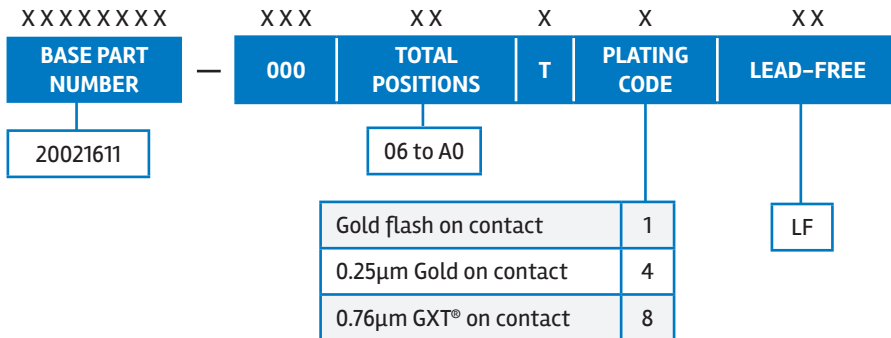


Minitek127® Shrouded Header, Vertical, SMT

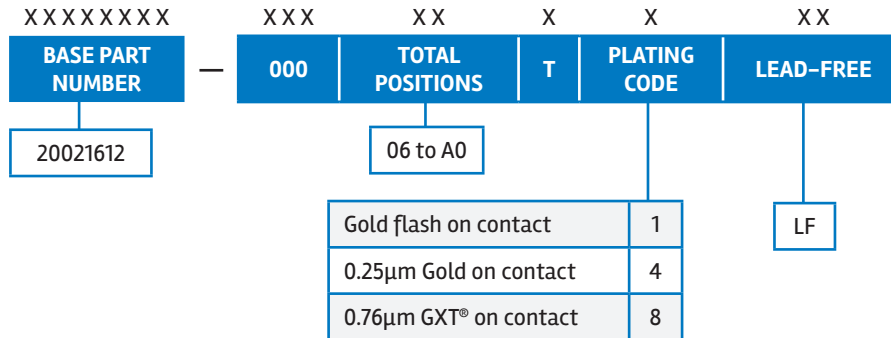


PART NUMBER SELECTOR – EJECT HEADER

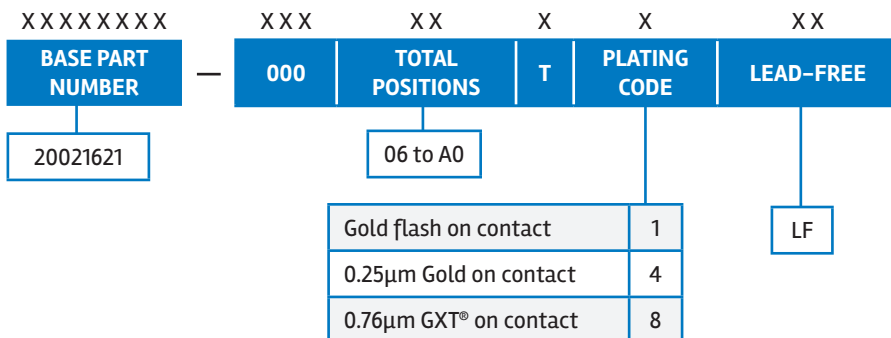
Minitek127® Eject Header, Vertical, TH



Minitek127® Eject Header, Right Angle, TH

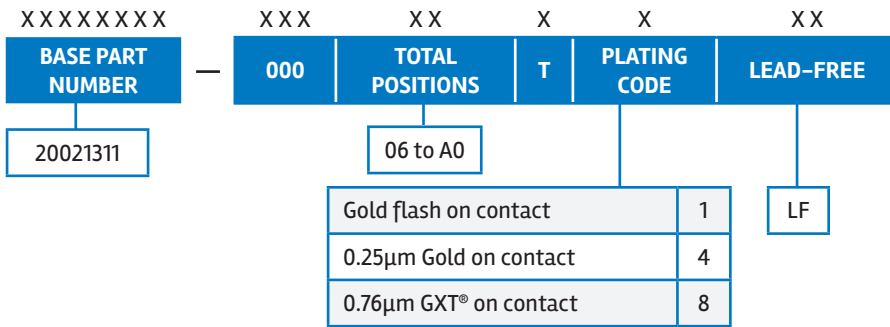


Minitek127® Eject Header, Vertical, SMT

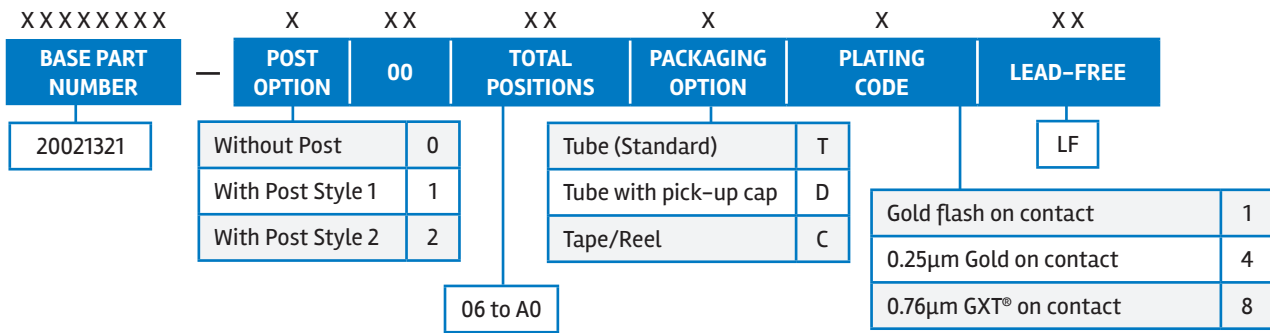


PART NUMBER SELECTOR – RECEPTACLE / IDC

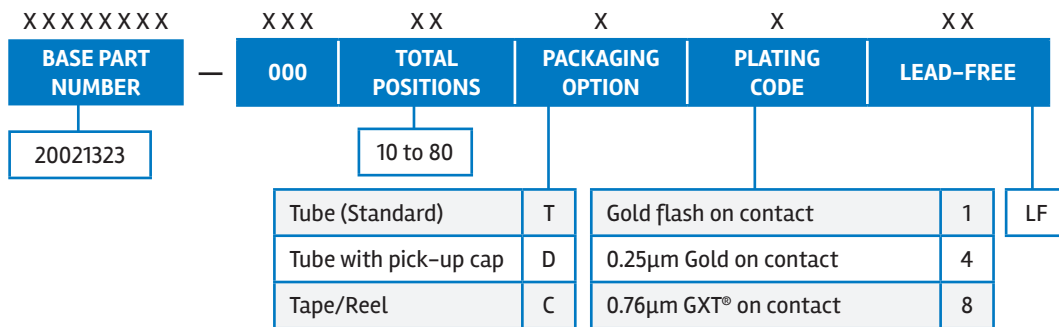
Minitek127® Receptacle, Vertical, TH



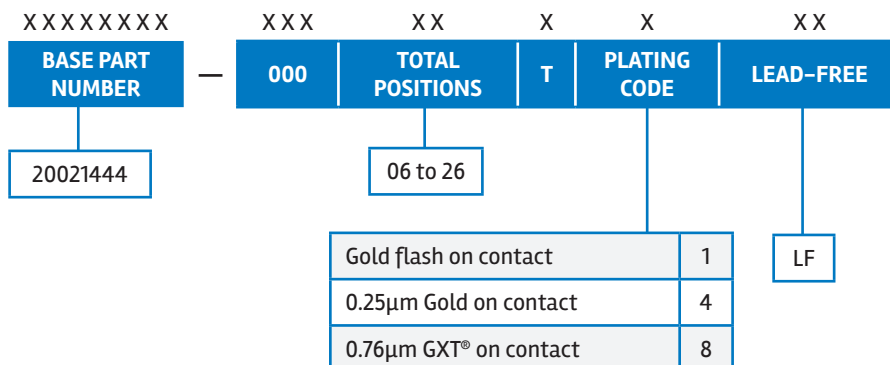
Minitek127® Receptacle, Vertical, SMT



Minitek127® Receptacle, Vertical, SMT, Bottom Entry

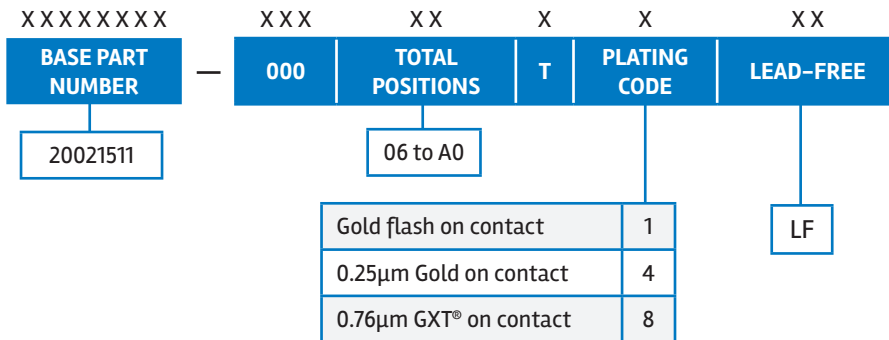


Minitek127® IDC Receptacle

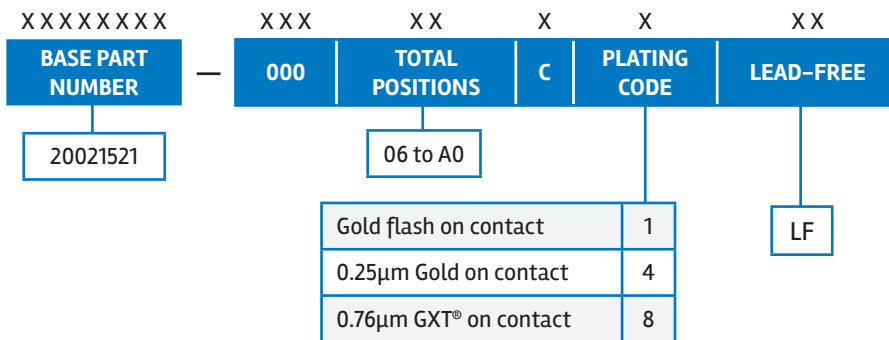


PART NUMBER SELECTOR – IDC HEADER

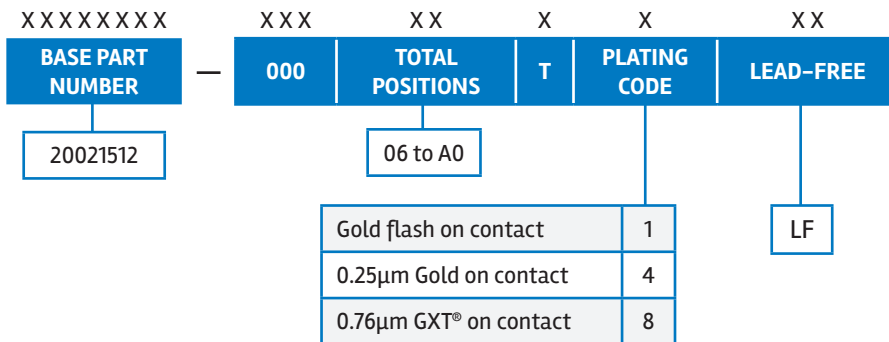
Minitek127® IDC Header, Vertical, TH



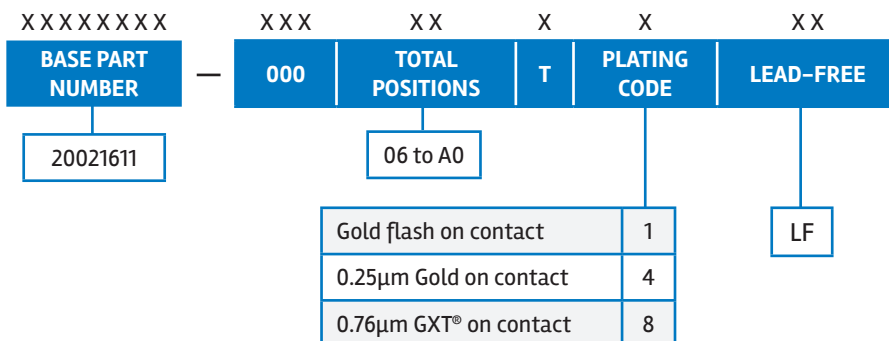
Minitek127® IDC Header, Vertical, SMT



Minitek127® IDC Header, Right Angle, TH



Minitek127® IDC Header, Right Angle, SMT



1.27mm

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
20021111	20021111-00006T4LF	Unshrouded header, Vertical, TH	0.25µm Gold on contact	6	Tube
	20021111-00008T4LF			8	
	20021111-00010T4LF			10	
	20021111-00012T4LF			12	
	20021111-00016T4LF			16	
	20021111-00020T4LF			20	
20021121	20021121-00006C4LF	Unshrouded header, Vertical, SMT	0.25µm Gold on contact	6	Tape/Reel with cap
	20021121-00008C4LF			8	
	20021121-00010C4LF			10	
	20021121-00012C4LF			12	
	20021121-00016C4LF			16	
	20021121-00020C4LF			20	
20021221	20021221-00006C4LF	Shrouded header, Vertical, SMT	0.25µm Gold on contact	6	Tape/Reel with cap
	20021221-00008C4LF			8	
	20021221-00010C4LF			10	
	20021221-00012C4LF			12	
	20021221-00016C4LF			16	
	20021221-00020C4LF			20	
20021321	20021321-00006C4LF	Receptacle, Vertical, SMT	0.25µm Gold on contact	6	Tape/Reel with cap
	20021321-00008C4LF			8	
	20021321-00010C4LF			10	
	20021321-00012C4LF			12	
	20021321-00016C4LF			16	
	20021321-00020C4LF			20	
20021444	20021444-00010T4LF	IDC Receptacle	0.25µm Gold on contact	10	Tube
	20021444-00012T4LF			12	
	20021444-00016T4LF			16	
	20021444-00020T4LF			20	

SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
20021521	20021521-00010C1LF	IDC Header, Vertical, SMT	Gold flash on contact	10	Tape/Reel with cap
	20021521-00012C1LF			12	
	20021521-00016C1LF			16	
	20021521-00020C1LF			20	
20021621	20021621-00010C1LF	Eject Header, Vertical, SMT	Gold flash on contact	10	Tape/Reel with cap
	20021621-00012C1LF			12	
	20021621-00016C1LF			16	
	20021621-00020C1LF			20	

BergStak® 0.80mm Mezzanine Connector

Extraordinary product range, Benchmark performance, Dual-source champion

Amphenol
ICC

FLEXIBLE SOLUTION FOR HIGH DENSITY APPLICATIONS

Amphenol ICC BergStak® 0.8mm is a flexible solution designed for high speed and high density, parallel board-to-board connector system with 16 PCB stack heights in 9 sizes up to 200 positions.

- Housing and terminal profile guarantees support of up to 12Gb/s
- Vertical versus vertical mating configuration
- 40 to 200 position sizes in 20 position increments
- 5mm to 20mm stack heights in 1mm increments



0.80mm

FEATURES

- Housing and terminal profile guarantees support of up to 12Gb/s
- Vertical versus vertical mating configuration
- 40 to 200 position sizes in 20 position increments
- 5mm to 20mm stack heights in 1mm increments
- 0.8mm double-row contact pitch conserves printed circuit board space
- Scoop-proof feature housings
- Multiple plating options available
- Multiple packaging options available
- PCB locator pegs option
- Available in UL94-V0 material
- RoHS compliant and lead-free

BENEFITS

- Compatible with PCIe Gen 2/3 and SAS 3.0 high speed performance on selected stack heights
- Suitable for parallel board stacking applications
- Comprehensive range of sizes and stack heights to satisfy all needs
- High density for all electrical applications needs
- Prevents reverse mating
- Satisfies different application requirement
- Suitable for varies feeding processing
- Facilitates ease and accuracy during manual assembly
- High flammability rating
- Meets environmental, health and safety requirements

*The PCIe® mark is a registered trademark of the PCI-SIG Corp

▶ BergStak® 0.80mm Mezzanine Connector

TECHNICAL INFORMATION

MATERIAL

- Housing: Glass filled LCP, UL94V-0
- Contact Base Metal
 - Receptacle: Copper Alloy, High Spring
 - Plug: Brass
- Contact Area Finish: Gold or Gold flash over Palladium-nickel (GXT) over Nickel
- Solder Area Finish: Matte pure Tin over Nickel

MECHANICAL PERFORMANCE

- Durability: 100 Mating Cycles
- Mating Force: 0.9N max./contact
- Unmating Force: 0.1N min./contact

ELECTRICAL PERFORMANCE

- Insulation Resistance:
 - Initial: 1000M Ω min.
 - After Test: 100M Ω min.
- Current Rating: 0.8A/contact
- Contact Resistance:
 - Initial: 30m Ω max.
 - After Test: 50m Ω max.
- Voltage Rating: 100VAC
- Signal Integrity (Differential pairs, connector and SMT pads only)
 - Impedance Range: 81 to 108 Ω @ 50 ps edge (10–90%)
 - Return Loss: < 10dB up to 5GHz
 - Insertion Loss: < 1.5dB up to 5GHz
 - NEXT: \leq 4.0% for a 50 ps edge (10–90%)
 - FEXT: \leq 2.4% for a 50 ps edge (10–90%)

ENVIRONMENTAL

- Temperature Range: -40°C to +125°C
- High Temperature Life: 105°C \pm 5°C for 1000 hours
- Humidity: 90–95% relative humidity for 96 hours
- Mixed Flowing Gas Class 2a (30 GXT)

APPROVALS AND CERTIFICATIONS

- UL E66906
- File no. LR46923

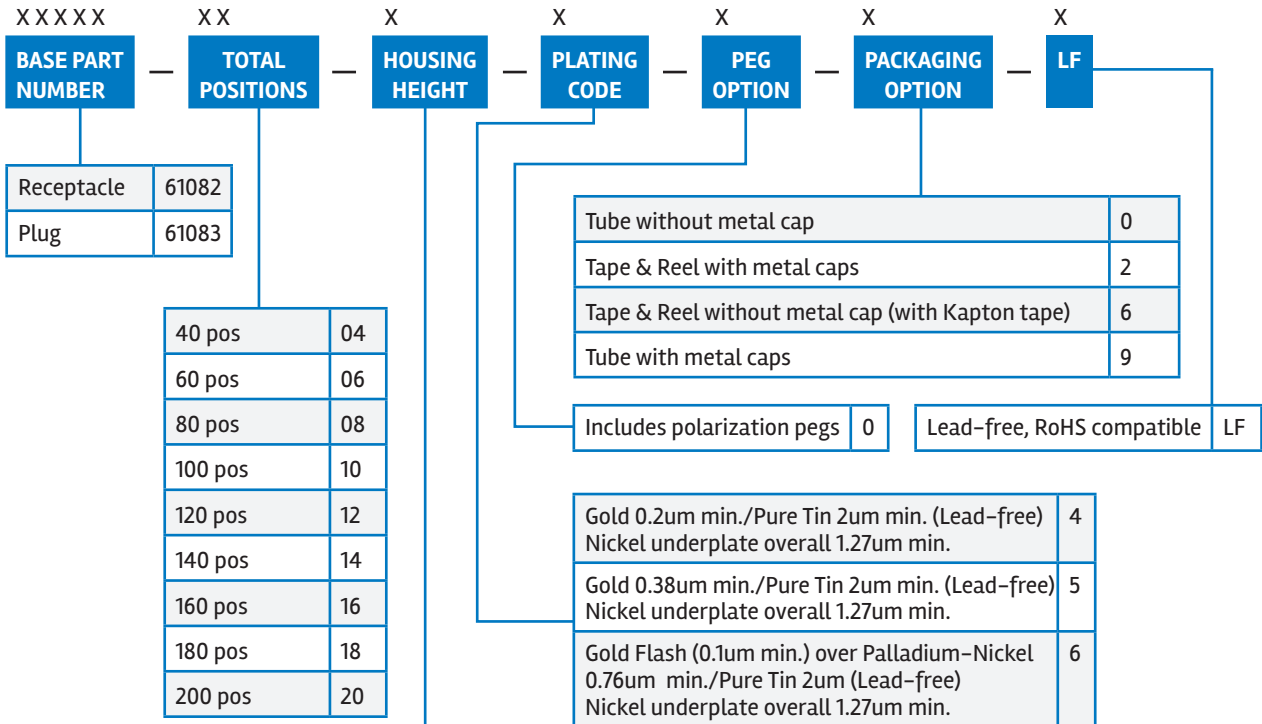
SPECIFICATIONS

- Product Specification: GS-12-547
- Test Report: DGS-29-010

PACKAGING

- Tape & Reel
- Tubes

PART NUMBER SELECTOR



X FOR PLUG, SEE DWG. NO. 61083

COMBINATION OF MATED HEIGHT	Plug 1	Plug 2	Plug 3	Plug 4
Recep 1				
Recep 2				
Recep 3				
Recep 4				

0.80mm

▶ BergStak® 0.80mm Mezzanine Connector



SELECTED PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
61083	61083-041402LF	Plug P1	4= 0.2µm Gold on contact and 2µm Tin on solder tail	40	Tape & Reel with pick-up cap
	61083-042402LF	Plug P2		40	
	61083-043402LF	Plug P3		40	
	61083-044402LF	Plug P4		40	
	61083-061402LF	Plug P1		60	
	61083-062402LF	Plug P2		60	
	61083-063402LF	Plug P3		60	
	61083-064402LF	Plug P4		60	
	61083-081402LF	Plug P1		80	
	61083-082402LF	Plug P2		80	
	61083-083402LF	Plug P3		80	
	61083-084402LF	Plug P4		80	
	61083-101402LF	Plug P1		100	
	61083-102402LF	Plug P2		100	
	61083-103402LF	Plug P3		100	
	61083-104402LF	Plug P4		100	
	61083-121402LF	Plug P1		120	
	61083-122402LF	Plug P2		120	
	61083-123402LF	Plug P3		120	
	61083-124402LF	Plug P4		120	
61082	61082-041402LF	Receptacle R1	4= 0.2µm Gold on contact and 2µm Tin on solder tail	40	Tape & Reel with pick-up cap
	61082-042402LF	Receptacle R2		40	
	61082-043402LF	Receptacle R3		40	
	61082-061402LF	Receptacle R1		60	
	61082-062402LF	Receptacle R2		60	
	61082-063402LF	Receptacle R3		60	
	61082-081402LF	Receptacle R1		80	
	61082-082402LF	Receptacle R2		80	
	61082-083402LF	Receptacle R3		80	
	61082-101402LF	Receptacle R1		100	
	61082-102402LF	Receptacle R2		100	
	61082-103402LF	Receptacle R3		100	
	61082-121402LF	Receptacle R1		120	
	61082-122402LF	Receptacle R2		120	
	61082-123402LF	Receptacle R3		120	

RELIABLE SOLUTION FOR HIGH DENSITY APPLICATIONS

Amphenol ICC's BergStak® 0.5mm is a comprehensive and versatile board-to-board solution designed for reliable and high-density applications. The unique design of scoop-proof housing ensures terminals are not damaged during mating.

- 0.5mm double row contact for high density connector
- Scoop-proof housing ensures terminals are not damaged during the mating
- PCB locator pegs option helps to ease manual assembly



FEATURES

- 0.5mm double row contact
- Scoop-proof housings
- Metal hold-down option
- Locating pegs option
- 3mm to 6mm stack heights in 0.5mm increments
- 10 to 60 positions in 10 position increments
- Available in UL94 V0
- RoHS compliant and lead-free

BENEFITS

- High density connector
- Ensures terminals are not damaged during mating
- Higher retention force
- Eases manual assembly
- Wide range of sizes and stack heights supports different applications
- High flammability rating
- Meets environmental, health and safety requirements

▶ BergStak® 0.50mm Mezzanine Connectors

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic UL94V-0, LCP, Black
- Terminal: Copper Alloy
- Metal Hold-down: Copper Alloy
- Plating: Gold Flash

MECHANICAL PERFORMANCE

- Mating Force: 1.47N per pin max.
- Unmating Force: 0.15N per pin min.
- Retention Force: 0.98N per pin min.
- Durability: 50 mating cycles

ELECTRICAL PERFORMANCE

- Current Rating per Contact: 0.5A per contact
- Insulation Resistance: 500MΩ min.
- Voltage Rating: 50 VAC

ENVIRONMENTAL

- Salt Spray Test:
 - 5±1% salt concentration 48±4 hours 35±2°C
- Thermal Shock: -65°C to +125°C
- High Temperature: 85±2°C for 96 hours
- Humidity:
 - Temperature: 40±2°C 96 hours
 - Relative Humidity: 90-95%
 - Duration: 96 Hours

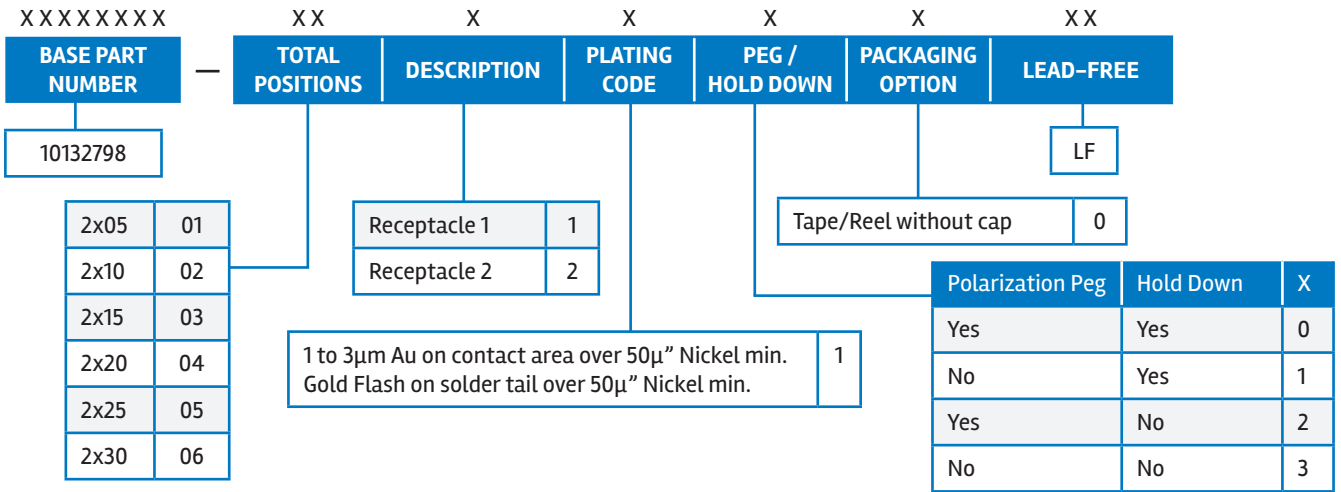
SPECIFICATIONS

- Product Specification: GS-12-1298

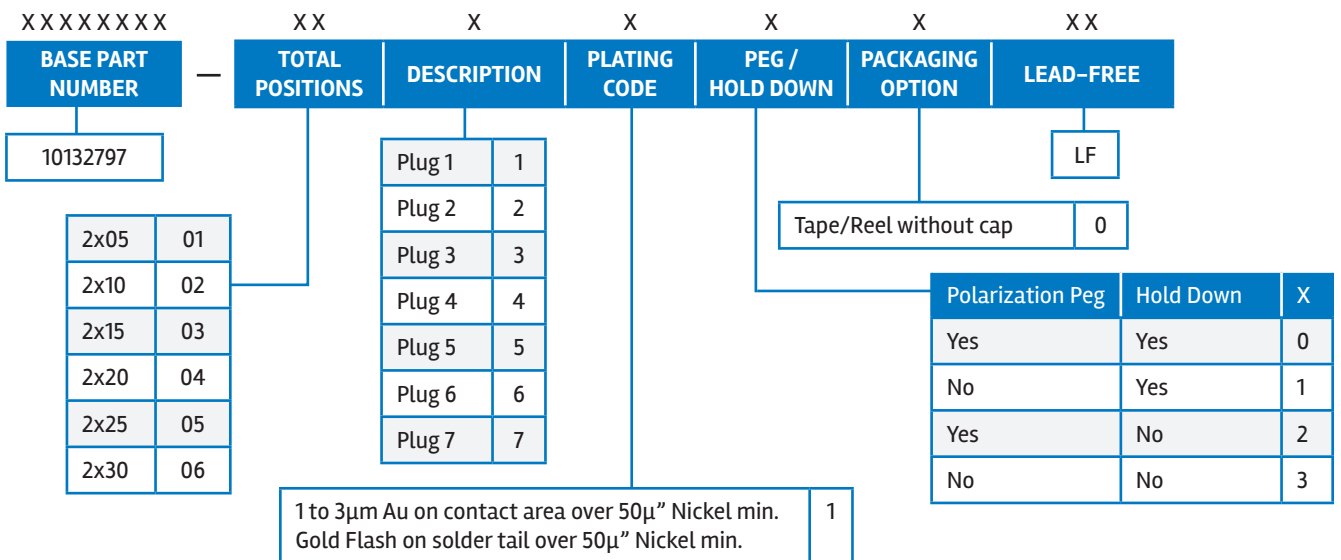
PACKAGING

- Tape/Reel Without Cap

PART NUMBER SELECTOR – RECEPTACLE



PART NUMBER SELECTOR – PLUG



Core
Range **SELECTED PART NUMBERS**

Base Part Number	Part Number	Description	Stack Height	Total Positions	Packaging
10132797	10132797-011100LF	Plug	2.3mm	10	Tape/Reel without cap
	10132797-033100LF		3.3mm	30	
	10132797-055100LF		4.3mm	50	
	10132797-065100LF		4.3mm	60	
	10132797-067100LF		5.3mm	60	
10132798	10132798-011100LF	Receptacle	2.15mm	10	Tape/Reel without cap
	10132798-031100LF		2.15mm	30	
	10132798-052100LF		2.7mm	50	
	10132798-062100LF		2.7mm	60	

0.50mm

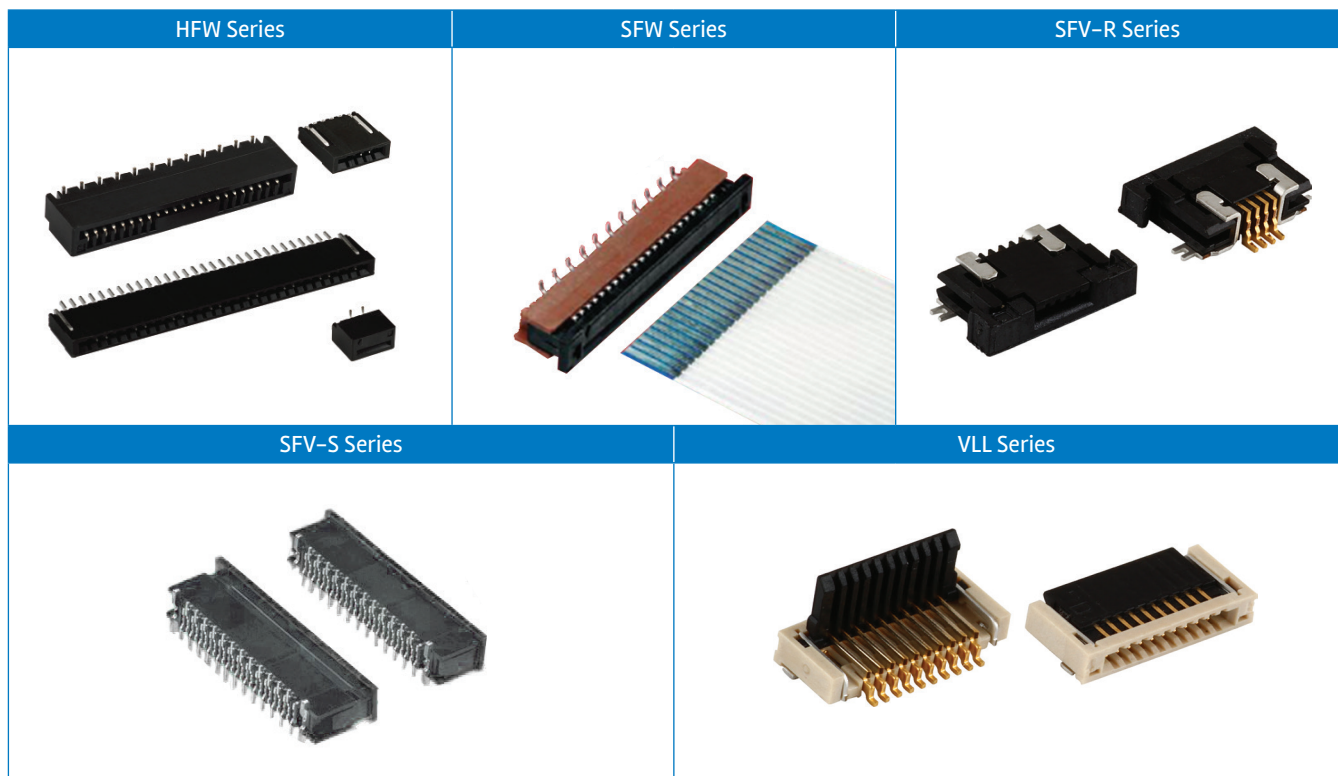
FFC/FPC Connectors

Comprehensive Product Range from 0.21mm to 2.54mm pitch

VERSATILE SOLUTION FOR DIFFERENT APPLICATIONS SEGMENTS

Amphenol ICC's FFC/FPC connectors offers the most innovative and complete range of products in the industry. The connectors are available in LIF (low insertion force) and ZIF (zero insertion force), top and bottom contact options, vertical and right angle orientations, surface mount and through hole terminations in contact spacing options all the way down to 0.21mm.

Additional features include optional cable locks and additional mounting devices. Amphenol ICC has a solution for almost any application, no matter how demanding.



HFW Series

1.00mm Pitch, Non-Zif Design

HFW series- 1.00mm pitch connector is a versatile and cost-effective solution used in board-to-board applications with space constraint. It comes in non-ZIF design which is more robust. Right angle and vertical configurations are available.

- Suitable for a variety of applications
- Rugged design for cost-effective solution
- Non-ZIF design for a robust solution



TARGET MARKETS



FEATURES

- Right angle and vertical configurations
- Rugged design
- Non-ZIF design
- RoHS compliant

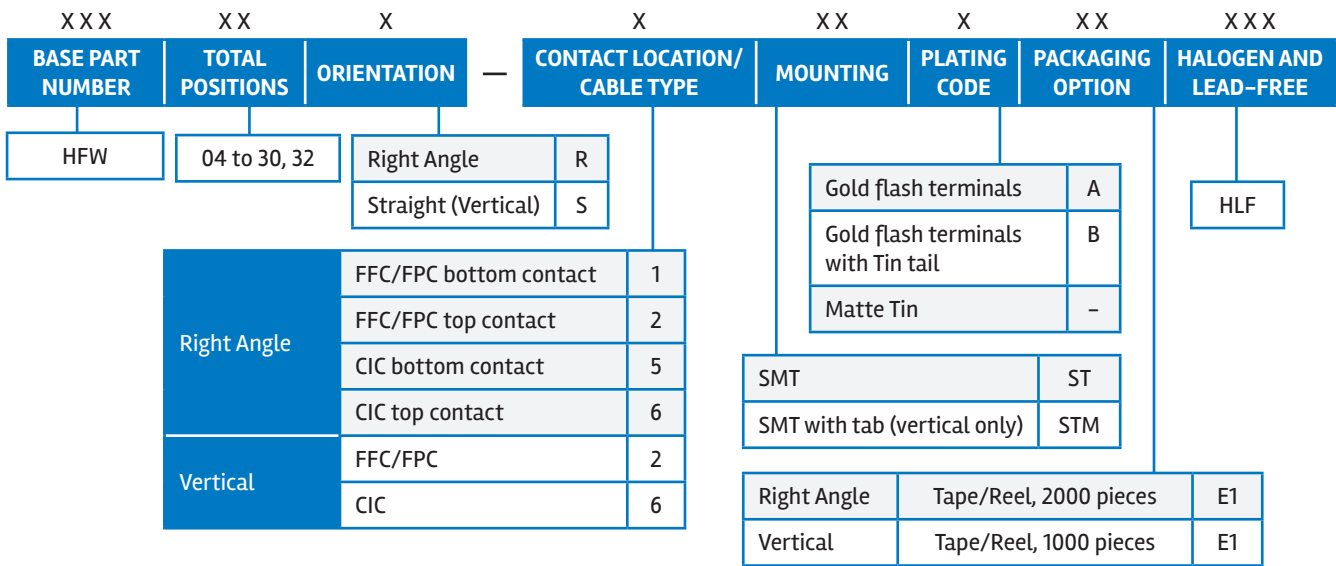
BENEFITS

- Suitable for a variety of applications
- Cost-effective solution
- Improves robustness
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

- Orientation: Right Angle and Vertical Options
- Cable Termination: Non-ZIF
- Cable Type: FFC/FPC/CIC
- Board Termination: Surface Mount (SMT)
- Contact Location: Top and bottom
- Height: 1.9mm (right angle), 5.3mm (vertical)
- Available in Lead-free Matte Tin and Gold Flash Plating

PART NUMBER SELECTOR



SFW Series

1.00mm Pitch, Zif Design

SFW series– 1.00mm pitch connector is a flexible and low cost solution suitable for applications requiring high pin count connectors. Right angle and vertical configurations are available.

- Suitable for a variety of applications
- ZIF design ensures ease of use
- Sliding actuator ensures high retention force
- High pin count ensures cost efficiency



TARGET MARKETS



FEATURES

- Right angle and vertical configurations
- SMT termination
- ZIF design
- Sliding actuator
- Higher pin count
- Optional cable lock for right angle version
- RoHS compliant

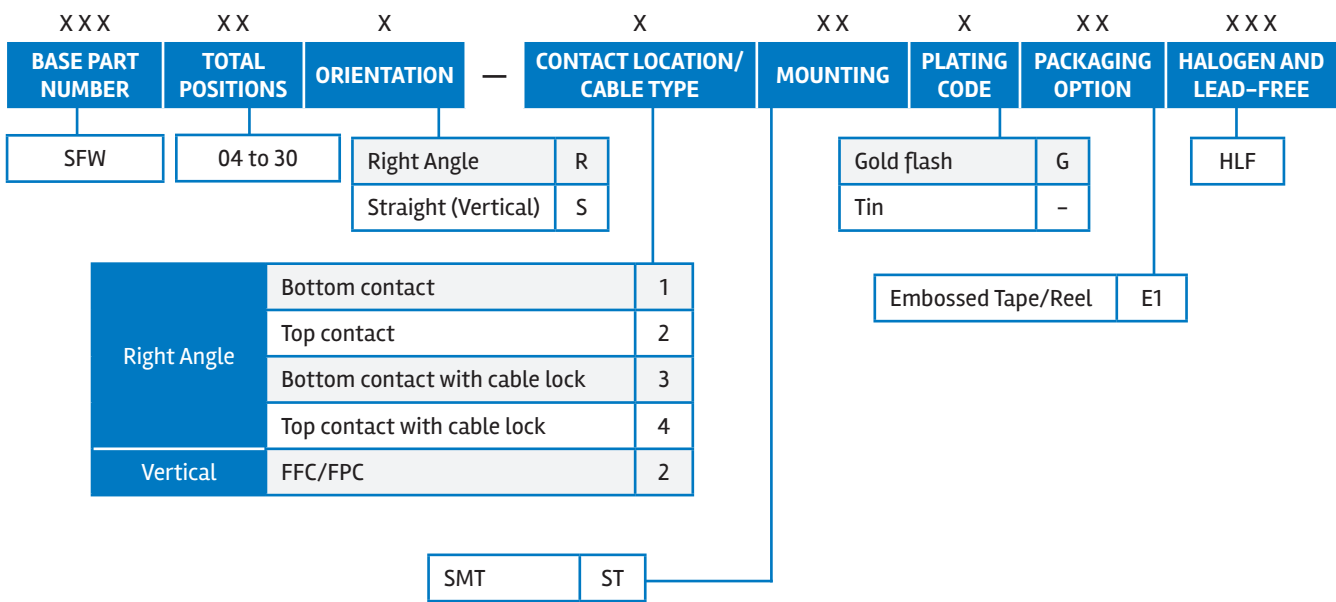
BENEFITS

- Suitable for a variety of applications
- Suitable for FFC/FPC/CIC cables
- Easy to use
- Ensures high retention force
- Cost-effective solution
- Ensures high retention force
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

- Orientation: Right Angle and Vertical Options
- Cable Termination: ZIF
- Cable Type: FFC/FPC/CIC
- Board Termination: Surface Mount (SMT)
- Contact Location: Top and bottom
- Height: 2.7mm (right angle), 5.3mm (vertical)
- Available in Lead-free Matte Tin and Gold Flash Plating
- Optional cable lock for right angle version

PART NUMBER SELECTOR

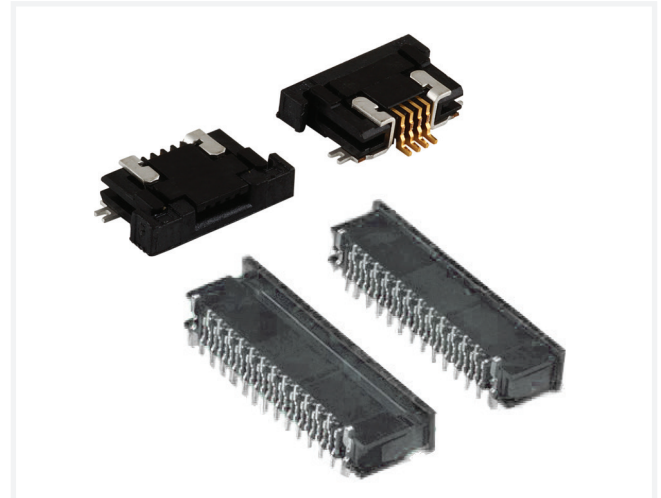


SFV Series

0.50mm Pitch, Zif Design

SFV series- 0.50mm pitch connector is a reliable and low cost solution. It comes with a sliding actuator that secures cable and ZIF design with top and bottom contacts. Right angle and vertical configurations are available.

- Suitable for a variety of applications
- ZIF design ensures ease of use
- Sliding actuator ensures high retention force
- High pin count ensures cost efficiency



TARGET MARKETS



FFC/FPC

FEATURES

- ZIF design
- Traditional sliding actuator
- Higher pin count
- RoHS compliant

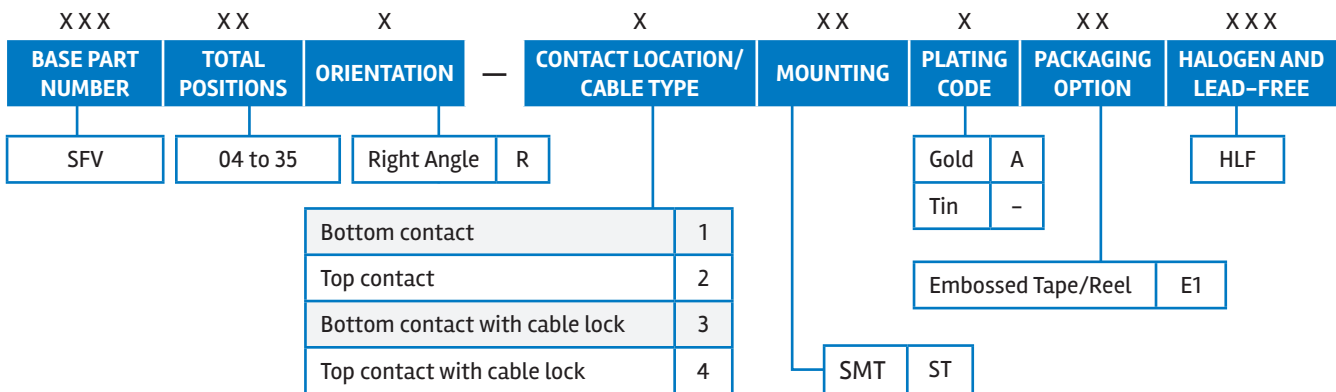
BENEFITS

- Easy to use
- Ensures high retention force
- Cost-effective solution
- Meets environmental, health and safety requirements

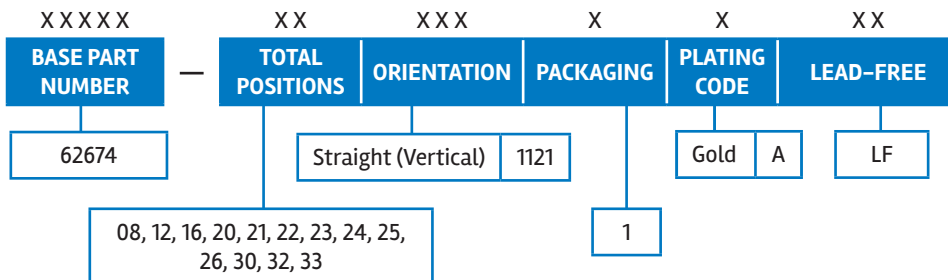
TECHNICAL INFORMATION

- Orientation: Right Angle and Vertical Options
- Cable Termination: ZIF with Prehold
- Cable Type: FFC/FPC
- Board Termination: Surface Mount (SMT)
- Contact Location: Top and Bottom
- Height: 1.8mm
- Available in lead-free Matte Tin and Gold Plating Option
- Optional Cable Lock
- Halogen-free

PART NUMBER SELECTOR – SFV-R SERIES



PART NUMBER SELECTOR – SFV-S SERIES



VLL Series

0.50mm Pitch, Zif Design

VLL series- 0.50mm pitch right angle connector is a reliable and low cost solution for applications requiring high pin count connectors. It comes with a backside flip actuator and ZIF design that is easy to use.

- Suitable for a variety of applications
- ZIF design ensures ease of use
- Traditional sliding actuator for high retention force
- High pin count ensures cost efficiency



TARGET MARKETS



FFC/FPC

FEATURES

- ZIF design
- Backside flip actuator
- High retention design
- Higher pin count
- RoHS compliant

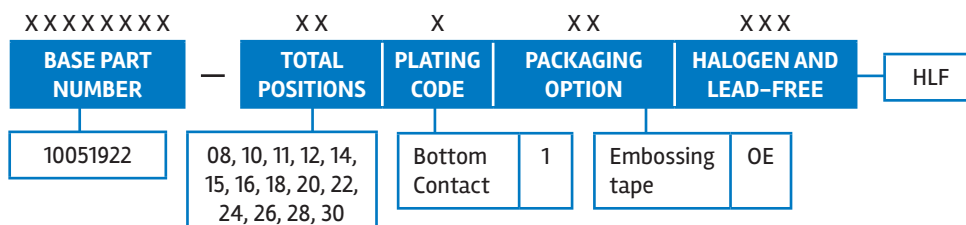
BENEFITS

- Easy to use
- Enables visual confirmation
- Secure and reliable connection
- Cost-effective solution
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

- Orientation: Right angle
- Cable Termination: ZIF
- Cable Type: FFC/FPC
- Board Termination: Surface Mount (SMT)
- Contact Location: Bottom
- Height: 1.3mm
- Lead-free with gold plating
- Halogen-free
- Accommodated cable thickness: 0.3mm

PART NUMBER SELECTOR



FFC/FPC Connectors



SELECTED PART NUMBERS

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating	Note			
HFW	HFW4R-1STE1LF	1.00mm	Right Angle	4	Non-ZIF	Bottom	Tin	-			
	HFW8R-1STE1LF			8							
	HFW12R-1STE1LF			12							
	HFW14R-1STE1LF			14							
	HFW18R-1STE1LF			18							
	HFW20R-1STE1LF			20							
	HFW24R-1STE1LF			24							
	HFW28R-1STE1LF			28							
	HFW30R-1STE1LF			30							
	HFW4R-2STE1LF			4							
	HFW8R-2STE1LF			8							
	HFW12R-2STE1LF			12							
	HFW14R-2STE1LF			14							
	HFW18R-2STE1LF			18							
	HFW20R-2STE1LF			20							
	HFW24R-2STE1LF			24							
	HFW28R-2STE1LF			28							
	HFW30R-2STE1LF			30							
						Vertical	8		Vertical		Halogen-free
	HFW8S-2STE1HLF		8								
	HFW12S-2STE1HLF		12								
	HFW14S-2STE1HLF		14								
	HFW18S-2STE1HLF		18								
	HFW20S-2STE1HLF		20								
	HFW24S-2STE1HLF		24								
	HFW28S-2STE1HLF		28								
	HFW30S-2STE1HLF		30								

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating	Note							
SFW	SFW4R-1STE1HLF	1.00mm	Right Angle	4	ZIF	Bottom	Tin	Halogen-free							
	SFW8R-1STE1HLF			8											
	SFW12R-1STE1HLF			12											
	SFW14R-1STE1HLF			14											
	SFW18R-1STE1HLF			18											
	SFW24R-1STE1HLF			24											
	SFW30R-1STE1HLF			30											
	SFW34R-1STE1HLF			34											
	SFW4R-2STE1HLF			4											
	SFW8R-2STE1HLF			8											
	SFW12R-2STE1HLF			12											
	SFW14R-2STE1HLF			14											
	SFW18R-2STE1HLF			18											
	SFW24R-2STE1HLF			24											
	SFW30R-2STE1HLF			30											
	SFW34R-2STE1HLF			34											
										Vertical	4		Vertical		-
	SFW4S-2STE1LF			4											
	SFW8S-2STE1LF		8												
	SFW12S-2STE1LF		12												
	SFW14S-2STE1LF		14												
	SFW18S-2STE1LF		18												
	SFW24S-2STE1LF		24												
	SFW30S-2STE1LF		30												
SFW34S-2STE1LF	34														



SELECTED PART NUMBERS

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating
SFV-R	SFV4R-3STBE1HLF	0.50mm	Right Angle	4	ZIF	Bottom	Gold
	SFV8R-3STBE1HLF			8			
	SFV12R-3STBE1HLF			12			
	SFV14R-3STBE1HLF			14			
	SFV18R-3STBE1HLF			18			
	SFV24R-3STBE1HLF			24			
	SFV30R-3STBE1HLF			30			
	SFV34R-3STBE1HLF			34			
	SFV4R-4STBE1HLF			4		Top	
	SFV8R-4STBE1HLF			8			
	SFV12R-4STBE1HLF			12			
	SFV14R-4STBE1HLF			14			
	SFV18R-4STBE1HLF			18			
	SFV24R-4STBE1HLF			24			
	SFV30R-4STBE1HLF			30			
	SFV34R-4STBE1HLF			34			

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Plating
SFV-S	62674-81121ALF	0.50mm	Vertical	8	ZIF	Gold
	62674-121121ALF			12		
	62674-161121ALF			16		
	62674-201121ALF			20		
	62674-211121ALF			21		
	62674-221121ALF			22		
	62674-241121ALF			24		
	62674-251121ALF			25		
	62674-261121ALF			26		
	62674-281121ALF			28		
	62674-301121ALF			30		

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location	Plating
VLL	10051922-0810EHLF	0.50mm	Right Angle	8	ZIF	Bottom	Gold
	10051922-1210EHLF			12			
	10051922-1610EHLF			16			
	10051922-2010EHLF			20			
	10051922-2410EHLF			24			
	10051922-2810EHLF			28			
	10051922-3010EHLF			30			

FFC/FPC

▶ FFC/FPC Connectors



SELECTED PART NUMBERS

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating	Note
HFW	HFW4R-1STAE1HLF	1.00mm	Right Angle	4	Non-ZIF	Bottom	Gold	Halogen-free
	HFW8R-1STAE1HLF			8				
	HFW12R-1STAE1HLF			12				
	HFW14R-1STAE1HLF			14				
	HFW18R-1STAE1HLF			18				
	HFW20R-1STAE1HLF			20				
	HFW24R-1STAE1HLF			24				
	HFW28R-1STAE1HLF			28				
	HFW30R-1STAE1HLF			30				
	HFW8R-2STAE1HLF			8				
	HFW12R-2STAE1HLF			12				
	HFW14R-2STAE1HLF			14				
	HFW18R-2STAE1HLF		18					
	HFW20R-2STAE1HLF		20					
	HFW24R-2STAE1HLF		24					
	HFW28R-2STAE1HLF		28					
	HFW30R-2STAE1HLF		30					
	HFW8S-2STAE1HLF		8	Vertical				
	HFW12S-2STAE1HLF		12					
	HFW14S-2STAE1HLF		14					
	HFW18S-2STAE1HLF		18					
	HFW20S-2STAE1HLF		20					
	HFW24S-2STAE1HLF		24					
	HFW28S-2STAE1HLF		28					
HFW30S-2STAE1HLF	30							

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating					
SFW	SFW4R-3STE1HLF	1.00mm	Right Angle	4	Non-ZIF	Bottom with cable lock	Tin					
	SFW8R-3STE1HLF			8								
	SFW12R-3STE1HLF			12								
	SFW14R-3STE1HLF			14								
	SFW18R-3STE1HLF			18								
	SFW24R-3STE1HLF			24								
	SFW30R-3STE1HLF			30								
	SFW34R-3STE1HLF			34								
	SFW4R-4STE1HLF			4								
	SFW8R-4STE1HLF			8								
	SFW12R-4STE1HLF			12								
	SFW14R-4STE1HLF			14								
	SFW18R-4STE1HLF			18								
	SFW24R-4STE1HLF			24								
	SFW30R-4STE1HLF			30								
	SFW34R-4STE1HLF			34								
											Top with cable lock	

Series	Part Number	Pitch	Orientation	Total Positions	Cable Termination	Contact Location/ Cable Type	Plating					
SFV-R	SFV4R-3STAE1HLF	0.50mm	Right Angle	4	ZIF	Bottom with cable lock	Gold					
	SFV8R-3STAE1HLF			8								
	SFV12R-3STAE1HLF			12								
	SFV14R-3STAE1HLF			14								
	SFV18R-3STAE1HLF			18								
	SFV24R-3STAE1HLF			24								
	SFV30R-3STAE1HLF			30								
	SFV34R-3STAE1HLF			34								
	SFV4R-4STAE1HLF			4								
	SFV8R-4STAE1HLF			8								
	SFV12R-4STAE1HLF			12								
	SFV14R-4STAE1HLF			14								
	SFV18R-4STAE1HLF			18								
	SFV24R-4STAE1HLF			24								
	SFV30R-4STAE1HLF			30								
	SFV34R-4STAE1HLF			34								
											Top with cable lock	

COST-EFFECTIVE AND DURABLE CONNECTORS

Amphenol ICC offers a broad and complete range of interconnection systems conforming to DIN 41612 and IEC 603-2 specifications. They are easily available, cost-effective, highly durable and ideal for Industrial, Telecom and Data markets.

- Standard Mount and Reverse Mount options available
- Available up to 3 rows and 96 positions with Solder,
- Press-fit and pin-in Paste terminations
- Revolutionary beam-on-beam contact interface
- 3 standard performance class options available



Backplane 2.54mm

FEATURES

- 2.54mm pitch
- Modular system
- Selective loading pattern for contacts
- FMLB/LMEB contacts
- Wide range of accessories (board-locks, latches, shrouds, hoods, keys)
- Rear plug up variants in press-fit applications

BENEFITS

- Adequate spacing for routing PCB traces
- Standardized and cost-effective solutions
- Improve creepage distance, allow custom loading
- Critical grounding option
- Enhances the connector suitability and flexibility
- Extended mating applications via shrouds on the rear side of the PCB

► DIN 41612 Signal Headers & Receptacles

TECHNICAL INFORMATION

MATERIAL

- Insulator: Polyester Thermoplastic
- Housings can withstand exposure to lead free wave soldering temperature of 260°C to 265°C when used along with high temperature adhesive or protective metallic device for right angle connectors.
- Contact: Copper Alloy (Male & Female contact)
- Plating: Lead-free version
- Male & Female contacts (DIN 41612 compliant)
 - Active contact areas selectively plated
 - Gold over Nickel or GXT® over Nickel on mating surface
 - Tin over Nickel on solder termination

MECHANICAL PERFORMANCE

- Mating Insertion Force per Contact: $\leq 0.94\text{N}$
- Mating Extraction Force per Contact: $\geq 0.15\text{N}$
- Contact Retention in Insulator: $\geq 20\text{N}$
- Vibration: $\leq 1\mu\text{s}$
 $\leq 40\text{m}\Omega$
- Shock: $\leq 1\mu\text{s}$
 $\leq 40\text{m}\Omega \times 25 \text{ pos.}$

APPROVALS AND CERTIFICATIONS

- Approved by UL to both UL and CSA standards

PACKAGING

- Tray
- Tube
- Carton

ENVIRONMENTAL

- Temperature Range: -55°C to $+125^\circ\text{C}$
- Damp Heat
 - Steady state 56 days: Class 1
 - Steady state 21 days: Class 2
 - Not applicable: Class 3

ELECTRICAL PERFORMANCE

- Current Rating at 20°C: 1.5A
- Maximum Current: 2A
- Contact Resistance: $\leq 20\text{m}\Omega$
- Insulation Resistance: $\geq 106\text{M}\Omega$
- Test Voltage (rms): 1000V
- Creepage and Clearance Distance: $\geq 1.2\text{mm}$
- Wiping/Plug-in Direction: $\geq 1.8\text{mm}$

SPECIFICATION

- DIN 41612
- IEC 603-2

PART NUMBERS

Base Part Number	Part Number	Description	Plating	Total Positions	Packaging
C	Right Angle Header	2 row / 64 pos.	a & c	Solder-to-board	860946471137*5ELF
				Press-fit	860946471947*5E1LF
		3 row / 96 pos.	a, b, c	Solder-to-board	860939671137*5ELF
				Press-fit	860939671947*5E1LF
	Straight Receptacle	2 row / 64 pos.	a & c	Solder-to-board	860946481147*5V1LF
				Press-fit	860946481947*5E3LF
3 row / 96 pos.		a, b, c	Solder-to-board	860939681147*5V1LF	
			Press-fit	860939681947*5E3LF	
C/2	Right Angle Header	2 row / 32 pos.	a & c	Solder-to-board	860943273137*5ELF
		3 row / 48 pos.	a, b, c		860934873137*5ELF
		2 row / 32 pos.	a & c		860943283147*5V1LF
	Straight Receptacle	3 row / 48 pos.	a, b, c	Solder-to-board	860934883147*5V1LF
		2 row / 32 pos.	a & c	Press-fit	860934883947*5E3LF
				Solder-to-board	860913251137*5ELF
B	Right Angle Header	1 row / 32 pos.	a only	Solder-to-board	860926451137*5ELF
		2 row / 64 pos.	a & b		860913261147*5V1LF
	Straight Receptacle	1 row / 32 pos.	a only		860926461147*5V1L
		2 row / 64 pos.	a & b		860923253137*5ELF
B/2	Right Angle Header	2 row / 32 pos.	a & b	Solder-to-board	860923263147*5E1LF
	Straight Receptacle				860946478147*5ELF
R	Straight Header	2 row / 64 pos.	a & c	Solder-to-board	860946478947*5E1LF
			a, b, c	Press-fit	860939678147*5ELF
		3 row / 96 pos.	a & c	Solder-to-board	860939678947*5E1LF
			a, b, c	Press-fit	860946488137*5V1LF
	Straight Receptacle	2 row / 64 pos.	a & c	Solder-to-board	860946488947*5E3LF
				Press-fit	860939688137*5V1LF
		3 row / 96 pos.	a, b, c	Solder-to-board	860939688947*5E3LF
				Press-fit	860943276147*5ELF
R/2	Straight Header	2 row / 32 pos.	a & c	Solder-to-board	860934876147*5ELF
		3 row / 48 pos.	a, b, c	Solder-to-board	860934876947*5E1LF
				Press-fit	860943286137*5E1LF
	Straight Receptacle	2 row / 32 pos.	a & c	Solder-to-board	860934886137*5E1LF
3 row / 48 pos.		a, b, c	Solder-to-board	860926458147*5ELF	
Q	Straight Header	2 row / 64 pos.	a & b	Solder-to-board	860926458147*5ELF

Note:
Asterisk (*) in part number denotes Performance class: PN Code 6,5,4 for Class 1, 2 & 3 respectively. Custom loading and other options available on request.

Backplane 2.54mm

▶ DIN 41612 Signal Headers and Receptacles

PART NUMBER SELECTOR – 8609 SERIES

XXXX		X	X	X	X	XX	X	X	XX	XXX
BASE PART NUMBER	ROWS FITTING WITH CONTACTS	TOTAL POSITIONS	INSULATOR TYPE	MOUNTING TYPE	TERMINATION STYLE	BOARD MOUNTING OPTIONS	PLATING CODE	CONTACT PITCH PER ROW	VERSION	
8609		96								
a--	1	Male 2-Row	5			Standard Housing without harpoons	7			
ab-	2	Female 2-Row	6			Standard Housing with harpoons	H			
abc	3	Male 2-Row	7							
a-c	4	Female 2-Row	8							
-b-	5									
-bc	6									
Standard for Full Euro	1									
Standard for Half Euro	3									
Reverse for Half Euro	6									
Standard for 45 position	7									
Reverse for Full Euro	8									
Reverse for HE11	9									
				Solder Eyelet Mixed (Short & Long)	08					
				Solder Eyelet Short	09					
				Solder Eyelet Long	10					
				Right Angle Solder Short	13					
				Straight Solder Long	14					
				Wire Wrap - 2 Wrap	15					
				Right Angle Solder Long	23					
				Straight Solder Short	24					
				Wire Wrap 17.4mm termination	25					
				Pressfit + 1 Wire Wrap	91					
				Pressfit + 2 Wire Wrap	92					
				Pressfit + 3 Wire Wrap	93					
				Pressfit Stub EON version	94					
				Pressfit Rear Plug-Up	96					
				Pressfit + 1 Wire Wrap + Rear Plug-Up	97					
						DIN Class 3	4			
						DIN Class 2	5			
						DIN Class 1	6			
						JSS Compliant Spec	8			
						2.54mm	5			
						5.08mm	8			
						Mixed pitch for special loading	0			
						Male solder tail version, Lead free				ELF
						Male or female contacts with central carrier, solder tail version, Lead free				E1LF
						Female contacts with central carrier, pressfit version, Lead free				E3LF
						Female solder tail version, lead free				V1LF

PART NUMBER SELECTOR – BPS8 SERIES

XXXX	X	XX	XX	XX	XX	XX	XX		
BASE PART NUMBER	CONTACT PITCH	TOTAL POSITIONS	CONTACTS	CABLE OPTION	COVER VARIATION	PLATING CODE	LEAD-FREE	LF	
BPS8	B 2.54mm	09, 21, 42, 96							
			3 row side pierce DIN IDC			DIN Class I	Z0		
			Rows a & c fully loaded	AC		DIN Class II	Z1		
			Rows a fully loaded	A0		DIN Class III	E9		
			Rows a & b fully loaded	AB					
			Rows a, b & c fully loaded	FL					
					AWG 28 & 30 solid & stranded discrete wire		D0	Without Cover	00
					AWG 24 & 26 solid & stranded discrete wire		D2	With standard cover (2 piece)	C0
								With low profile cover BPBS8B96P5 (96 pos)	C5
								With very low profile cover BPS8B96P7 (96 pos)	CA

DESIGNED IN ACCORDANCE WITH DIN 41612

DIN IDC cable connectors are available in 4 connector sizes ranging from 96, 42, 21 and 9 positions. Available in wire sizes 30AWG to 24AWG, their unique insulation displacement design grant the lowest installed cost for users. Standard accessories are also offered to make up a fully modular system. This robust and standardized solution is widely used for Industrial & Instrumentation markets.

- Fully modular system
- Customized modules
- Wide variety of standard accessories
- Suitable for solid and stranded wires



TARGET MARKETS



FEATURES

- 4 contact point IDC configuration
- Fully modular system
- Customized modules
- Wide variety of standard accessories such as latches, hoods/covers and keys
- Suitable for solid and stranded wires

BENEFITS

- Provides excellent electrical and mechanical properties
- Flexible, robust and standardized solution
- Enhances connector suitability and flexibility
- Improved adaptability and polarization
- Individual strain relief crimp
- Individual wire repair
- Visual inspection after insertion of wires
- Fast and easy wire installation

▶ DIN IDC Cable Connectors

TECHNICAL INFORMATION

MATERIAL

- Body Material: Glass Reinforced Thermoplastic (UL94V-0)
- Contact Material: Phosphor Bronze
- Male & Female Contacts (DIN 41612 compliant)
 - Active contact areas selectively plated
 - Gold over Nickel or GXT™ over Nickel on Mating Surface
 - Tin over Nickel on Solder Termination
- Plating: Lead-free Version

MECHANICAL PERFORMANCE

- Insertion Force: 1N max. per contact
- Withdrawal Force: 0.2N min. per contact

ELECTRICAL PERFORMANCE

- Contact Resistance: 15mΩ max. initial, 5mΩ max. rise of initial value after test
- Current Rating: 1.5A @ 25°C, 1A @ 70°C
- Voltage Rating: 250VAC (rms)
- Dielectric Withstanding Voltage: 1000 VAC (rms)

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C (Depending on the cable, maximum temperature can be lower)
- For standard PVC insulated cable: 105°C max.

SPECIFICATIONS

- DIN 41612
- IEC 603-2

APPROVALS AND CERTIFICATIONS

- UL/CSA pending

PACKAGING

- Tray and carton

PART NUMBERS

DIN IDC 3x32 CABLE CONNECTOR

No. of Contacts	Rows Loaded	Wire Gauge	Connector	Cover Set	Connector + Standard Cover Set
96 (2-piece)	a, b, c	AWG 30-28	BPS8B96FLD000xxLF	BPBS8B96CAP1LF	BPS8B96FLD0C0xxLF
		AWG 26-24	BPS8B96FLD200xxLF		BPS8B96FLD2C0xxLF
64 (1-piece)	a, c	AWG 30-28	BPS8B96ACD000xxLF		BPS8B96ACD0C0xxLF
		AWG 26-24	BPS8B96ACD200xxLF		BPS8B96ACD2C0xxLF

DIN IDC 2 x (3x7) CABLE CONNECTOR

No. of Contacts	Rows Loaded	Wire Gauge	Connector	Cover Set	Connector + Standard Cover Set
42 (2-piece)	a, b, c	AWG 30-28	(2x) BPS8B21FLD000xxLF	BPBS8B42P3LF	BPS8B42FLD0C0xxLF
		AWG 26-24	(2x) BPS8B21FLD200xxLF		BPS8B42FLD2C0xxLF
28 (1-piece)	a, c	AWG 30-28	(2x) BPS8B21ACD000xxLF		BPS8B42ACD0C0xxLF
		AWG 26-24	(2x) BPS8B21ACD200xxLF		BPS8B42ACD2C0xxLF

DIN IDC 3x7 CABLE CONNECTOR

No. of Contacts	Rows Loaded	Wire Gauge	Connector	Cover Set	Connector + Standard Cover Set
21 (2-piece)	a, b, c	AWG 30-28	BPS8B21FLD000xxLF	BPBS8B21P3LF	BPS8B21FLD0C0xxLF
		AWG 26-24	BPS8B21FLD200xxLF		BPS8B21FLD2C0xxLF
14 (1-piece)	a, c	AWG 30-28	BPS8B21ACD000xxLF		BPS8B21ACD0C0xxLF
		AWG 26-24	BPS8B21ACD200xxLF		BPS8B21ACD2C0xxLF

DIN IDC 3x3 CABLE CONNECTOR

No. of Contacts	Rows Loaded	Wire Gauge	Connector	Cover Set	Connector + Standard Cover Set
9 (2-piece)	a, b, c	AWG 30-28	BPS8B09FLD000xxLF	BPBS8B09P3LF	BPS8B09FLD0C0xxLF
		AWG 26-24	BPS8B09FLD200xxLF		BPS8B09FLD2C0xxLF
6 (1-piece)	a, c	AWG 30-28	BPS8B09ACD000xxLF		BPS8B09ACD0C0xxLF
		AWG 26-24	BPS8B09ACD200xxLF		BPS8B09ACD2C0xxLF

Notes

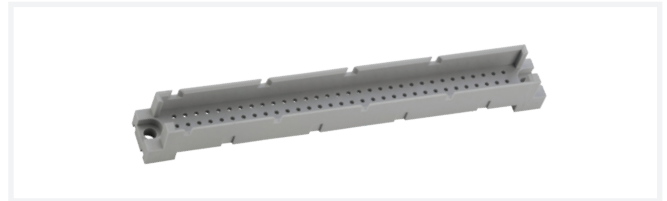
Performance class:

- DIN 41612 class III: replace xx by Z0 in part number
- DIN 41612 class II: replace xx by Z1 in part number
- DIN 41612 class I: replace xx by E9 in part number

*Note: In case of obsolescence, please contact Amphenol ICC for the replacement part numbers.

SHROUDS

Shrouds are used on the rear side of the backplane to act as rear header. They need to be pressed in over the terminations of press-fit connectors. No additional hardware is needed.



FEATURES

- Available in standard and reverse polarization
- Available in different offsets to accommodate different backplane thickness
- Available in both self retaining design (press-in) or in traditional design (fixing with screws)

BENEFITS

- Easy guiding and visual identification
- Prevents mismatching
- Flexibility on backplane thickness
- No mounting hardware
- Receives latching accessories to mate with cable connectors

PART NUMBERS

Description	Part Numbers
Standard Shroud, PCB 3.2mm, 5mm Standoff, 3 row	86092256LF
Standard Shroud, PCB 2.4mm, 5.8mm Standoff, 3 row	86092257LF
Standard Shroud, PCB 3.2mm, 9mm Standoff, 3 row	86092258LF
Standard Shroud, PCB 2.4mm, 9.8mm Standoff, 3 row	86092259LF
Reverse Shroud, PCB 3.2mm, 5mm Standoff, 3 row	86092266LF
Reverse Shroud, PCB 2.4mm, 5.8mm Standoff, 3 row	86092267LF
Reverse Shroud, PCB 3.2mm, 9mm Standoff, 3 row	86092268LF
Reverse Shroud, PCB 2.4mm, 9.8mm Standoff, 3 row	86092269LF

LATCH FRAME

Latch frames along with latches are mainly used to provide locking for 96 position cable connectors. Latch frame is fixed on the header housing to accommodate latches.



FEATURES

- Available in standard and reverse polarization
- Snap fitted on the connector housing
- Availability of module options

BENEFITS

- Easy guiding and visual identification
- Prevents mismatching
- No mounting hardware
- Accommodates multiple modules

PART NUMBERS

Description	Part Numbers
Module Latch Frame	65183-001LF
1 Module Latch Frame	65184-001LF
2 Module Latch Frame	65185-001LF
3 Module Latch Frame	65186-001LF
Latch Frame	65188-001LF

Backplane 2.54mm

► DIN Accessories

LATCHES

Latches are used along with latch frames fixed on the header housing to lock 96 position cable connectors.

FEATURES

- Can be easily fitted on the latch frame

- Positive locking

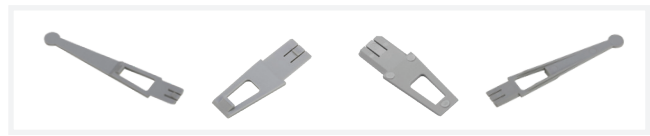
- Audible click when mated

BENEFITS

- No mounting hardware

- Provides secure mating

- Easy to lock and unlock



PART NUMBERS

Description	Part Numbers
Locking Latch	65182-001LF
Extended Locking Latch	66998-001LF

DIN POLARIZING KEY

Coding keys are used to prevent mismatching of boards. This is necessary when 2 or more similar connectors must be connected to a backplane or other electronic module which requires that the element being connected is unique for a particular location.

FEATURES

- Polarization

- Individual coding options

BENEFITS

- Prevents insertion of daughter board in the wrong slot position

- Available for both male and female connectors



PART NUMBERS

Description	Part Numbers
Individual Coding Keys	8609542LF
Polarizing Bar for Header	8609153003LF
Polarizing Bar for Receptacle 1	8609153007LF
Polarizing Bar for Receptacle 2	8609153004LF

HOOD/COVER SET

Hood/Cover sets are used with 96 position and 21 position cable connectors. Combination of cover, latch and latch frame locks the cable connector with the Board connector.

FEATURES

- Available in 2-piece snap-in design or traditional design (fixing with screws)

- Cover sets available for 96 position and 21 position modules

- Locking option

BENEFITS

- Easy mounting of cable connector

- Cable entry diameter ranges from 8mm to 14mm

- Used with latches and latch frame for locking the cable connector



PART NUMBERS

Description	Part Numbers
Universal Cover	65155-001LF
Hood + 2 Screws + 2 Brackets	86092001LF
Heavy Duty Hood 1, 2 Piece design	86092002LF
Heavy Duty Hood 2, 2 Piece design	86092005LF
Hood 96 position (snap-in design) with screws	86093159ALF
Hood 96 position (snap-in design)	86093162LF
Hood 96 position wide chamber	8609498LF
Cover Set for 96 position IDC Cable Connector	BPBS8B96CAP1LF
Cover Set for 96 position Low Profile IDC Cable Connector	BPBS8B96CAP2LF
Cover for 21 position IDC Cable Connector	BPBS8B21P3LF
Cover for 42 position IDC Cable Connector	BPBS8B42P3LF

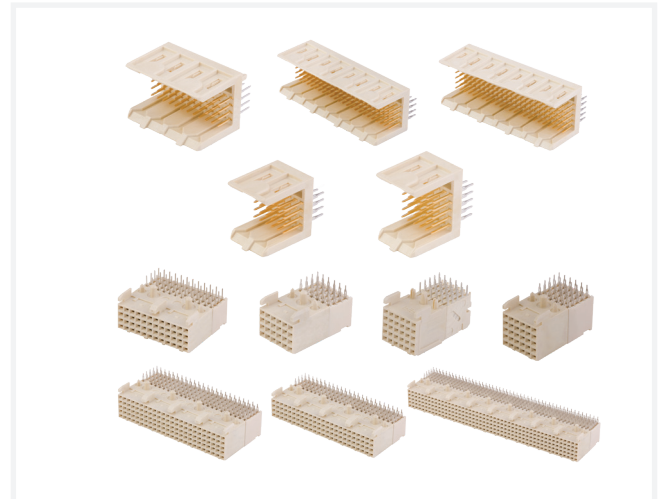
Metral® Vertical Header and Right Angle Receptacle

Metral® product family offers the widest range of backplane connector solutions which includes vertical header and right angle receptacle series. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® vertical headers and right angle receptacles offer high contact density of 250 contacts per 100mm connector length, and a contact pitch of 2mm. They are available in 4 and 5 row versions.

Metral® vertical headers can be used with vertical receptacles for mezzanine application.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical, and telecom markets.



TARGET MARKETS



FEATURES

- Modular and scalable, available in 1, 2, 4 and 8 modules
- 250 contacts per 100mm connector length
- Press-fit, Solder-to-Board and Pin-in-Paste terminations
- Varying pin length enables first-mate, last-break capability
- 4 and 5 row versions available
- Different length contacts at any position for Headers
- Dual beam contact design for receptacles
- Locating pegs option available
- Stackable connector to Metral® high speed range

BENEFITS

- Flexible modular length without any loss of contact position
- High signal density
- Caters to different application requirement
- Allows sequential connection of pins for design flexibility and offers protection
- Caters to different connector sizes
- Custom loading
- Provides electrical reliability and withstands vibration
- Enables accurate positioning of connector on PCB, holds connector in place
- Allows flexibility of low and high speed signals

Metral® Vertical Header And Right Angle Receptacle

TECHNICAL INFORMATION

MATERIALS

- Housing : High Temperature Thermoplastic; UL 94V-0
- Contact: Copper Alloy
- Plating: Performance-based Plating

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000Vrms
- Insulation Resistance: 5000MΩ min.
- Current Rating: 1.5A (all contacts powered)

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

SPECIFICATIONS

- Product Specifications: GS-12-180, 453
- Application Specifications: BUS-20-073, 061

MECHANICAL PERFORMANCE

- Mating Force: 0.45N max. per pin
- Unmating Force: 0.15N min. per pin

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- GR-1217-CORE

PACKAGING

- Tube for Press-fit and Solder-to-Board terminations
- Tape and Reel for Pin-in-Paste termination

PART NUMBERS

Right Angle Receptacle (RAR)		Module	Termination	Vertical Header (VH)	
Row				Row	
4	5			4	5
88945-102LF	89047-102LF	1	Press-fit	70232-116LF	89006-116LF
88946-102LF	89093-102LF	2	Press-fit	70233-116LF	89007-116LF
88947-102LF	89094-102LF	4	Press-fit	70234-116LF	89008-116LF
88948-102LF	89095-102LF	8	Press-fit	70235-116LF	89009-116LF
89035-102LF	85863-102LF	1	Solder-to-Board	88951-101LF	74741-101LF
89036-102LF	85864-102LF	2	Solder-to-Board	88952-101LF	74742-101LF
89037-102LF	85865-102LF	4	Solder-to-Board	88953-101LF	74743-101LF
89038-102LF	85866-102LF	8	Solder-to-Board	88954-101LF	74744-131LF
-	10126372-102LF	1	Pin-in-Paste	-	-

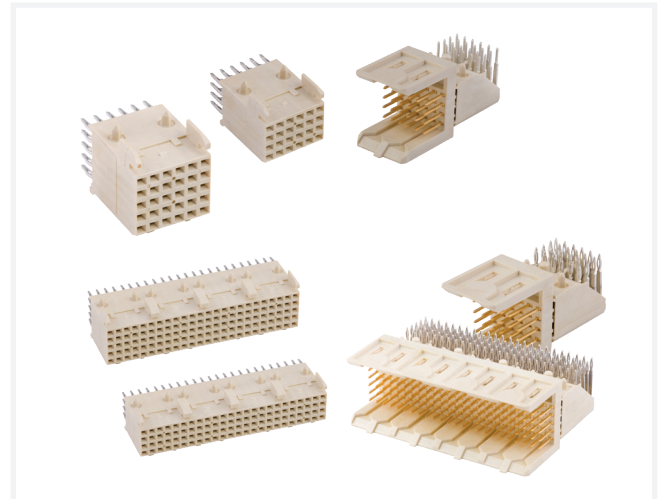
Metral® Right Angle Header and Vertical Receptacle

Metral® product family offers the widest range of backplane connector solutions which includes right angle header and vertical receptacle series. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® right angle headers and vertical receptacles offer high contact density of 250 contacts per 100mm connector length and a contact pitch of 2mm. They are available in 4 and 5 row versions.

Metral® vertical receptacles can be used with vertical headers for mezzanine application.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical and telecom markets.



TARGET MARKETS



FEATURES

- Modular and scalable, available in 1, 2, 4 and 8 modules
- 250 contacts per 100mm connector length
- Press-fit, Solder-to-Board and Pin-in-Paste terminations
- Varying pin length enables first-mate, last-break capability
- 4 and 5 row versions available
- Dual beam contact design for receptacles
- Locating pegs option available

BENEFITS

- Flexible modular length without any loss of contact position
- High signal density
- Caters to different application requirement
- Allows sequential connection of pins for design flexibility and offers protection
- Caters to different connector sizes
- Provides electrical reliability and withstands vibration
- Enables accurate positioning of connector on PCB, holds connector in place

Metral® Right Angle Header and Vertical Receptacle

TECHNICAL INFORMATION

MATERIALS

- Housing : High Temperature Thermoplastic; UL 94V-0
- Contact: Copper Alloy
- Plating: Performance-based Plating

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000Vrms
- Insulation Resistance: 5000MΩ min.
- Current Rating: 1.5A (all contacts powered)

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

SPECIFICATIONS

- Product Specifications: GS-12-445, 446, 447, 448

MECHANICAL PERFORMANCE

- Mating Force: 0.45N max. per pin
- Unmating Force: 0.15N min. per pin

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- GR-1217-CORE

PACKAGING

- Tube for Press-fit and Solder-to-Board Terminations
- Tape and Reel for Pin-in-Paste Termination

PART NUMBERS

Right Angle Header (RAH)		Module	Termination	Vertical Receptacle (VR)	
Row				Row	
4	5			4	5
HM1L41LDP000H6PLF	HM1L51LDP000H6PLF	1	Press-fit	85757-1101LF	85761-1101LF
HM1L42LDP000H6PLF	HM1L52LDP000H6PLF	2	Press-fit	85758-1101LF	HM1S52FER000H6PLF
HM1L43LDP000H6PLF	HM1L53LDP000H6PLF	4	Press-fit	85759-1101LF	85763-1101LF
HM1L44LDP000H6PLF	HM1L54LDP000H6PLF	8	Press-fit	-	-
HM1L41LAP000H6PLF	HM1L51LAP000H6PLF	1	Solder-to-Board	HM1S41TSR000H6LF	HM1S51TSR000H6LF
HM1L42LAP000H6PLF	HM1L52LAP000H6PLF	2	Solder-to-Board	HM1S42TSR000H6LF	HM1S52TSR000H6LF
HM1L43LAP000H6PLF	HM1L53LAP000H6PLF	4	Solder-to-Board	HM1S43TSR000H6PLF	HM1S53TSR000H6LF
HM1L44LAP000H6PLF	HM1L54LAP000H6PLF	8	Solder-to-Board	HM1S44TSR000H6LF	-
HM1L41LFP000H6PLF	HM1L51LFP000H6PLF	1	Pin-in-Paste	-	-

Metral® 2mm pitch cable connector meets the Board-to-Cable interface requirements and is part of the Metral® product family offering the widest range of backplane connector solutions. The connector is designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® cable connector is available in 4 and 5 row versions. They come in single and multi-module configurations.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical and telecom markets.



FEATURES

- Insulation-displacement contact (IDC) termination
- Active backshell latch
- Dual beam contact design
- 4 and 5 row versions available
- Connectors are end-to-end stackable

BENEFITS

- Ensures ease of cable termination
- Secures connection of cable connector to mating header
- Provides electrical reliability and withstands vibration
- Caters to different connector sizes
- Prevents loss of contact position

TECHNICAL INFORMATION

MATERIALS

- Housing: Glass-filled Polyamide; UL 94V-0
- Contact: Copper Alloy
- Plating: Performance-based Plating

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000VDC
- Insulation Resistance: 1000MΩ min
- Current Rating: 1A (all contacts powered)

ENVIRONMENTAL

- Operating Temperature: -55°C to +105°C

SPECIFICATIONS

- Product Specifications:
GS-12-015, GS-12-016
- Application Specifications:
GS-20-002, GS-20-003

MECHANICAL PERFORMANCE

- Mating Force: 1N max. per pin
- Unmating Force: 0.2N min. per pin
- Wire Range: 30AWG to 24AWG

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- Telcordia GR-1217-CORE

PACKAGING

- Trays

PART NUMBERS

Module	Part Numbers	
	4 Row	5 Row
1	72476-1111LF	72478-1111LF
2	72477-1111LF	72479-1111LF

Metral® Power, High Power And Coax Connectors

Metral® power, high power and coax connectors are standalone modules, end-to-end stackable with Metral® signal modules. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® power, high power and coax connectors support power solution with current rating of 3 to 40A for each pin. They are available in 4 and 5 row versions.

The power connector range featuring blade contacts is offered in vertical headers and right angle receptacles, right angle headers and vertical receptacles. The coax range includes single and multi pin versions.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical and telecom markets.



FEATURES

- Modular and scalable
- Varying pin length enables first-mate, last-break capability
- Dual beam contact design for receptacles blade
- Current rating of 3 to 40A
- Power connector range with blade contacts uses same PCB footprint as signal modules
- Press-fit, Solder-to-Board and Pin-in-Paste terminations available
- Power and coax couplers are available
- Mini coax connectors are available

BENEFITS

- End-to-end stackable with other power, signal and coax modules
- Allows sequential connection of pins for design flexibility and offers protection
- Provides electrical reliability and withstands vibration
- Caters to different application requirement
- Interchangeable solution offers design flexibility
- Caters to different application requirement
- Suitable for Rear Plug-Up (RPU) application
- Compact size and small footprint

Metral® Power, High Power And Coax Connectors

TECHNICAL INFORMATION

MATERIALS

- Housing: High Temperature Thermoplastic; UL 94V-0
- Contact: Copper Alloy
- Plating: Performance-based plating

ELECTRICAL PERFORMANCE

- Power
 - Dielectric Withstanding Voltage : 1000V rms
 - Insulation Resistance: 5000MΩ min
 - Current Rating: 3-40A
- Coax
 - Electrical Impedance: 50Ω and 75Ω
 - Operating Voltage: 250V
 - Insulation Resistance: 3000MΩ min

ENVIRONMENTAL

- Power
 - Operating Temperature: -55°C to +125°C
- Coax
 - Operating Temperature: -65°C to +165°C

SPECIFICATIONS

- Product Specifications: GS-12-180, GS-12-453
- Application Specifications: BUS-20-075, TA-941

MECHANICAL PERFORMANCE

- Power
 - Mating Force : 1.5N max. per pin
 - Unmating Force : 0.30N min. per pin
- Coax
 - Mating Force: 0.9N
 - Unmating Force: 0.9N

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- Telcordia GR-1217-CORE

PACKAGING

- Tube for Press-fit and Solder to Board Terminations
- Tape and Reel for Pin-in-Paste Termination

PART NUMBERS

METRAL® STANDARD POWER (3A)

Right Angle Receptacle (RAR)		Termination	Vertical Header (VH)	
Row			Row	
4	5		4	5
88949-102LF	89096-102LF	Press-fit	70236-101LF	89099-111LF
89039-101LF	85876-102LF	Solder-to-Board		
72651-101LF	63793-101LF	Pin-in-Paste		

METRAL® HIGH POWER (40A)

Description	Part Numbers
Right angle receptacle housing	89092-101LF
Receptacle contact	85995-103LF
Wide body header housing	88911-101LF
Contact screw PCB	91570-001LF

METRAL® COAX

Description	Part Numbers
Right angle receptacle housing	70244-102LF
Receptacle contact STB	70239-002LF
Wide body header housing	88913-101LF
Contact STB	88980-002LF

Metral® HDXS is a cable-to-board connector designed for high-end telecom applications including Telecom Access Equipments (ADSL/VDSL) and Base Stations.

Metral® HDXS is designed with minimum guaranteed clearance and creepage distances to comply to ANSI requirements of resistibility to overvoltages of up to 2500V. It is ideal for use in ADSL/VDSL as well as for harsh environments and other demanding telecom applications requiring high density cable-to-board interface. Metral® HDXS provides interconnection for differential pairs with very low crosstalk.

Designed in accordance with IEC 61076-4-104, Metral® HDXS meets the performance requirement as per Telcordia GR-1217-CORE. It is available in 6 row versions of right angle headers with press-fit and pin-in-paste terminations and cable connectors. Cable connectors kits are field installable.



TARGET MARKETS



FEATURES

- Multiple headers & cable connector mating configuration
- Insert Molded Leadframe Assembly (IMLA) based design for header
- Mini press-fit pins for header
- Flat rock housing design for header
- Enhanced Header Connector Footprint
- Staggered pinning
- Die cast shells for cable connector
- Dual IDC termination, Dual lip contact and individual wire retention for cable connector
- Shielded cable connection to front panel
- Recess provision in cable connector allows entry of conductive bosses on the front panel
- Selective loading option for header and receptacle

BENEFITS

- Enables size flexibility
- Enhances Signal Integrity (SI) performance
- Improves board routing
- Simplifies press-fitting process
- Allows horizontal and vertical routing and minimum layer count
- Clearance and creepage distances complies to ANSI requirements of resistibility to overvoltages of up to 2500V
- Robust and ruggedized design
- Provides high reliability
- Ensures Electromagnetic Compatibility (EMC)
- Guarantees electrical discharge before signal contacts are mated
- Custom loading SI performance

TECHNICAL INFORMATION

MATERIALS

- Housing: High Temperature Thermoplastic; UL 94V-0 compliant
- Contacts: Copper Alloy
- Plating: Performance-based Plating
- Covers: Die Cast Metal

ELECTRICAL PERFORMANCE

- Contact Resistance: 55mΩ max.
- Insulation Resistance: 5000MΩ min.
- Current Rating: 0.8A (all contacts powered)

ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C

SPECIFICATIONS

- Product Specification: GS-12-485
- Application Specification: GS-20-091

MECHANICAL PERFORMANCE

- Mating Force: 36N max for 24 pair
- Unmating Force: 7.2N min for 24 pair

APPROVALS AND CERTIFICATIONS

- Designed in accordance with IEC 61076-4-104
- Telcordia GR-1217-CORE standards

PACKAGING

- Tube packaging for headers
- Cable connector as kits with components in tray packaging

PART NUMBERS

Rows	Board Header		Cable Connector	
	Part Number	Number of Pairs	Part Number	Number of Pairs
6	10075388-101LF	24 pair	10078794-101LF	24 pair
			10090081-101LF	48 pair
			10076192-101LF	72 pair

Metral® accessories are compatible with Metral® 2mm Board-to-Board and Board-to-Cable connector systems. It enhances the usability and flexibility of Metral® connectors.

SHROUDS

- Single and multi-module shrouds, in 4 and 5 row versions are available.



FEATURES

- Offers forced-fit connection on vertical headers and receptacles for Rear Plug-Up (RPU) application

BENEFITS

- No mounting hardware

- Seating feature for coding keys

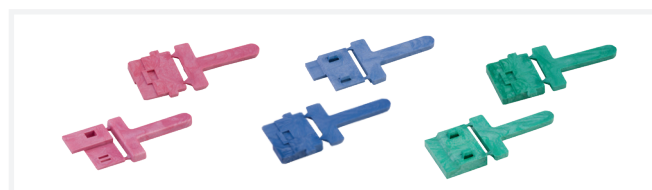
- Easy identification

PART NUMBERS

Module	Part Numbers	
	4 Row	5 Row
1	70203-111LF	89055-111LF
2	70203-112LF	89055-112LF
4	70203-113LF	89055-113LF
8	70203-114LF	89055-114LF

CODING KEYS

Coding keys prevent incorrect insertion of cards in the rack assemblies. The keys are locked in headers and receptacles.



FEATURES

- Fully polarized

BENEFITS

- No mounting hardware

- Available in different colors

- Easy identification

- Extended key length is optional

- Early engagement before connector pins mate enhances mating performance

PART NUMBERS

Module	Part Numbers	
	Header	Receptacle
Blue	85813-101LF	85814-101LF
Pink	85813-102LF	85814-102LF
Green	85811-101LF	85812-101LF

GUIDING SYSTEMS

Guiding pins and right angle sockets are compatible with Metral® connector system.



FEATURES

- Early interface of daughter card

BENEFITS

- Improves connector alignment during mating, protects the contact pins and connector housing

- Standalone system

- Flexible configuration within connector system

PART NUMBERS

Description	Head Part Numbers
Short Guide Pin	70295-001LF
Long Guide Pin	70295-002LF
Header Housing	88911-101LF
Receptacle Housing	70292-101LF

▶ Notes

Metral® HS 1000 Series is a high speed 2mm backplane connector system consisting of Right-Angle receptacles and vertical headers. The 1000 Series features a unique stripline structure in the receptacle and outer ground shields in the header. Apart from these features, the connectors are similar to the Amphenol ICC Standard Metral® Connectors. The stripline structure allows the Metral® HS 1000 Series to have improved signal performance when routed in either a single-ended or a differential pair configuration.

The Metral® HS 1000 Series is available in 5x6 and 8x12 module sizes with shrouds for midplane applications. The system also features dedicated ground rows. Two-, three-, and four- module monoblocks for the 5-row connector are available.

Metral® HS 1000 Series connectors are designed to conveniently stack end-to-end with other Amphenol ICC Metral products. The Metral® HS 1000 Series Right Angled Receptacles are also available with Pin in Paste Termination.



TARGET MARKETS



FEATURES

- Fully shielded strip-line transmission structure for Receptacles & Outer Ground Shields for Headers
- Stackable end-to-end with other Metral® Products
- All contacts can be used for signals since the grounds are built into the receptacle strip-line and header shield structure
- Available in 5 and 8-row configurations
- Press-fit Headers and Receptacles
- Receptacles also available with PIP Termination
- Dual-Beam Receptacle contacts
- Various Header loading patterns available
- Rear Plug up Options
- 200 Mating Cycles
- RoHS Compliant

BENEFITS

- Reduced Cross Talk & Improved Signal Performance (Less than 5% multi-line active NEXT @ 200ps rise time in differential applications)
- No loss of Pitch and Adaptable to the Metral® Platform
- Higher Contact Density
- Flexibility of Connector Size
- Easy Application on Boards and Repair
- Application Flexibility
- Ensure Reliable Connection
- Customized Selection
- Midplane Application
- Better Durability
- Meet environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIALS

- Housings: High-Temperature, Glass Filled LCP, UL94V-0
- Receptacle Contacts: Copper Alloy
- Header Pins: Copper Alloy
- Ground Shields: Copper Alloy
- Plating:
 - Contact Area: per Telcordia™ GR-1217-core for Central
 - Office and Uncontrolled Environment
 - Press-fit Tails: Matt Tin

ELECTRICAL PERFORMANCE

- Current Rating: 1A when all contacts are powered or 3A when one contact is powered at a 30°C max. temperature rise
- Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Signal Integrity: Data and SPICE models are available at www.fci.com.

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

MECHANICAL PERFORMANCE

- Mating Force: 0.55N max. per contact pair including ground and shield contacts
- Withdrawal Force: 0.20N min. per contact pair including ground and shield contacts

SPECIFICATIONS

- IEC 61076-4-104
- FCI Product Specifications
 - GS-12-110 for 5-row connectors
 - GS-12-134 for 8-row connectors
- FCI Application Specifications
 - GS-20-010 for headers and shrouds
 - GS-20-017 for receptacles

SPECIFICATIONS

- Recognized per UL/CSA
- Qualified per Telcordia GR-1217-CORE, Central Office (CO) and Uncontrolled Environment (UE)

PACKAGING

- Tubes – Press fit
- Tape&Reel – Pin in Paste

PART NUMBERS

Number of Rows & Positions	For Daughter Card Thickness	Header	Receptacle	Shroud
5-Row 5x6	1.27mm – 2.54mm	84817-XXX	84688-XXX/10082662-102LF	73993-XXX
5-Row 5x6	1.27mm – 2.54mm	73983-XXX 7	73981-XXX	73993-XXX
5-Row 5x6	2.54mm – 3.40mm	84881-XXX	84854-XXX	84882-XXX
8-Row 8x12	1.27mm – 3.40mm	74983-XXX	74981-XXX	74993-XXX

Note: All Dash numbers – XXX represent available options such as plating types, tail lengths for headers. Lead-free and RoHS-compliant products are designed by the addition of LF as a suffix to the dash number.

Metral® HS 2000 Series is a high speed 2mm backplane connector system of vertical headers. The 2000 Series features a unique stripline structure. Apart from this stripline structure, it is similar to the Amphenol ICC Standard Metral® Connector. This stripline structure allows the Metral® HS 2000 Series to have improved signal performance when routed in either a single-ended or a differential pair configuration.

The Metral® HS 2000 Series is available in 5x6 and 8x12 module sizes for midplane applications. The system also features dedicated ground rows. For the 5-row connector, the dedicated ground row is the 3rd row. For the 8-row connector, the dedicated ground rows are the 3rd and 5th rows. Two, Three & Four-module monoblocks for the 5-row connector are available.

Metral® HS 2000 Series connectors are designed to conveniently stack end-to-end with other Amphenol ICC Metral® products and are mateable with Metral® HS 1000/4000 Series Receptacles.



TARGET MARKETS



FEATURES

- Fully shielded strip-line transmission structure for Vertical Headers
- Stackable end-to-end with other FCI Metral® Products
- Dedicated Ground Row Contacts
- Available in 5 and 8-row configurations
- Press-fit Headers
- Various Header Loading Patterns available
- Rear Plug up Options
- 200 Mating Cycles
- RoHS Compliant

BENEFITS

- Reduced Cross Talk & Improved Signal Performance (Less than 2.5% multi-line active NEXT @ 200ps rise time in differential applications)
- No loss of Pitch and Adaptable to the Metral® Platform
- Improved Signal Integrity
- Flexibility of Connector Size
- Easy Application on Boards and Repair
- Customized Selection
- Midplane Application
- Better Durability
- Meet environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIALS

- Housings: High-temperature, Glass Filled LCP, UL94V-0
- Receptacle Contacts: Copper Alloy
- Header Pins: Copper Alloy
- Ground Shields: Copper Alloy
- Plating:
 - Contact Area: per Telcordia™ GR-1217-core for Central
 - Office and Uncontrolled Environment
 - Press-fit Tails: Matt tin

ELECTRICAL PERFORMANCE

- Current Rating: 1A when all contacts are powered or 3A when one contact is powered at a 30°C max.temperature rise
- Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Signal Integrity: Data and SPICE models are available at www.fci.com.

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

PART NUMBERS

Number of Rows & Positions	Header	Shroud
5-Row 5x6	74977-XXX	84621-XXX
5-Row 5x6	84809-XXX	84811-XXX
8-Row 8x12	74978-XXX	84625-XXX

Note: All Dash numbers - XXX represent available options such as plating types, tail lengths for headers. Lead-free and RoHS-compliant products are designed by the addition of LF as a suffix to the dash number.

MECHANICAL PERFORMANCE

- Mating Force: 0.55N max. per contact pair including ground and shield contacts
- Withdrawal Force: 0.20N min. per contact pair including ground and shield contacts

SPECIFICATIONS

- IEC 61076-4-104
- FCI Product Specifications
 - GS-12-110 for 5-row connectors
 - GS-12-134 for 8-row connectors
- FCI Application Specifications
 - GS-20-010 for headers and shrouds

SPECIFICATIONS

- Recognized per UL/CSA
- Qualified per Telcordia GR-1217-CORE, Central Office (CO) and Uncontrolled Environment (UE)

PACKAGING

- Tubes

Metral® HS 4000 Series is a high speed 2mm backplane connector system consisting of Right-Angle receptacles and vertical headers. The 4000 Series features a unique stripline structure in both the receptacle and header. Compared to the Metral® HS 1000 and 2000 Series, Metral® HS 4000 receptacle connectors employ a modified receptacle contact geometry optimized for 100Ω differential signals.

This yields a better impedance match and lower insertion loss. Metral® HS 4000 headers and receptacles also use a pressfit pin designed for 0.6mm drilled holes. The reduced hole diameter frees additional board space for trace routing and also results in lower capacitance.

The Metral® HS 4000 Series is available in a 5x6 module size. In addition to having ground shields between columns, the 5-row connectors use the third row for ground connections. Aside from the design enhancements to extend high-speed electrical performance up to 6.25 Gb/s, Metral® HS 4000 Series connectors are similar to the Standard Metral® Connectors. The system is designed to conveniently stack end-to-end with other Metral® products.



TARGET MARKETS



FEATURES

- Fully shielded strip-line transmission structure for Receptacles & Headers
- Stackable end-to-end with other FCI Metral® Products
- Optimized Contact Geometry
- Available in 5 Row configurations for Receptacles and both 5/8 Row configuration for Headers
- Press-fit Headers and Receptacles
- Smaller Press-fit Dia
- Dual-Beam Receptacle Contacts
- Various Header loading patterns available
- Contact Density
- 200 Mating Cycles
- RoHS Compliant

BENEFITS

- Reduced Cross Talk & Improved Signal Performance (Less than 5% multi-line active NEXT @ 100ps rise time in differential applications)
- No loss of Pitch and Adaptable to the Metral® Platform
- Ideal for 100Ωm differential Signalling and Lower Insertion loss
- Flexibility of Connector Size
- Easy Application on Boards and Repair
- Better Routing and Lower via Capacitance
- Ensure Reliable Connection
- Customized Selection
- 25 pairs/inch in 5 Row Connector
- Better Durability
- Meet environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIALS

- Housings: High-temperature, Glass Filled LCP, UL94V-0
- Receptacle Contacts: Copper Alloy
- Header Pins: Copper Alloy
- Ground Shields: Copper Alloy
- Plating:
 - Contact Area: per Telcordia™ GR-1217-core for Central Office and Uncontrolled Environment
 - Press-fit Tails: Matt tin

ELECTRICAL PERFORMANCE

- Current Rating: 1A when all contacts are powered or 3A when one contact is powered at a 30°C max. temperature rise
- Contact Resistance: 40mΩ max.
- Insulation Resistance: 1000MΩ min.
- Signal Integrity: Data and SPICE models are available at www.fci.com.

ENVIRONMENTAL

- Operating Temperature: -65°C to +105°C

MECHANICAL PERFORMANCE

- Mating Force: 0.55N max. per contact pair including ground and shield contacts
- Withdrawal Force: 0.20N min. per contact pair including ground and shield contacts

SPECIFICATIONS

- IEC 61076-4-104
- FCI Product Specifications
 - GS-12-184
- FCI Application Specifications
 - GS-20-014 for headers
 - GS-20-017 for receptacles

SPECIFICATIONS

- Recognized per UL/CSA
- Qualified per Telcordia GR-1217-CORE, Central Office (CO) and Uncontrolled Environment (UE)

PACKAGING

- Tubes

PART NUMBERS

Number of Rows & Positions	For Daughter Card Thickness	Header	Shroud
5-Row 5x6	1.27mm – 2.54mm	55003-XXXXXX	52057-XXX
5-Row 5x6	2.54mm – 3.40mm	59569-XXXXXX	52062-XXX

Note: All Dash numbers – XXX represent available options such as plating types, tail lengths for headers. Lead-free and RoHS-compliant products are designed by the addition of LF as a suffix to the dash number.

Millipacs® is a 2mm modular, Board-to-Board and Cable-to-Board Interconnection system in Hard Metric (HM) configuration designed in accordance with IEC 917, IEC 61076-4-101 and Telcordia GR-1217-CORE standards.

Millipacs® series 2mm HM connector is one of the most popular backplane connector system and offers attractive propositions for all market segments due to the cost-effectiveness, user flexibility, standardization and availability of its broad range. Millipacs® connector system is extensively used for chassis-based packaging in Communications, Data, Medical and Industrial & Instrumentation market segments. Millipacs® product family addresses a range of system architectures including backplane, coplanar, cabled backplane and mezzanine applications. Types of connector include Vertical Header, Right Angle Receptacle, Right Angle Header, Vertical Receptacle and Cable Receptacle. Millipacs® is the prime choice among all backplane connectors for signal applications up to 3Gb/s data rate.

Amphenol ICC offers Millipacs® high speed (HS) versions with mating compatibility to IEC 61076-4-101 series Hard Metric (HM) connectors which enables cost-effective upgrade to data rates up to 25Gb/s. It has mating compatibility with standard IEC 61076-4-101 series 2mm HM Vertical Header. The Millipacs® HS Receptacle and 2mm HM Vertical Header mating combination delivers low cross talk performance at higher frequencies.

TECHNICAL INFORMATION

MATERIALS

- VH Housing
 - Thermoplastic UL94V-0 for standard press-fit
 - High Temperature Polymer for Pin-in-Paste terminations and Millipacs® high speed
- RAH, VR and RAR Housings
 - High Temperature Polymer
- Contact: Copper Alloy
- Operating Temperature: -55°C to +125°C

ELECTRICAL PERFORMANCE

- Current Rating: 1.5A at 20°C; 1.0A at 70°C
- Contact Resistance: 20mΩ max.; 25mΩ max. for Millipacs® high speed
- Insulation Resistance: 10,000MΩ min.
- Voltage: 750Vrms

MECHANICAL PERFORMANCE

- Mating Force: 0.75N max. per contact; 0.50N max. per contact for Millipacs® high speed
- Withdrawal Force: 0.15N min. per contact
- Hertz Stress: 200 Kpsi min.
- Misalignment: Longitudinal ±2.0 mm; Transversal ±2.5 mm
- Inclination: ±2.0°

SPECIFICATIONS FOR MILLIPACS® STANDARD

- Product Specification: GS-12-203
- Application Specifications
 - VH: GS-20-034
 - RAH, VR and RAR: GS-20-022

SPECIFICATIONS FOR MILLIPACS® HIGH SPEED

- Product Specification: GS-12-1044
- Application Specifications: GS-20-22

APPROVALS AND CERTIFICATIONS

- IEC 917, IEC 61076-4-101
- DIN 43356 and IEEE 1301 Hard Metric Practice
- Telcordia GR-1217-CORE standards
- UL and CSA recognized

PACKAGING

- Tray packaging for standard versions
- Tape and reel packaging for Pin-in-Paste headers

Legend:
VH: Vertical Header
RAH: Right Angle Header
VR: Vertical Receptacle
RAR: Right Angle Receptacle

5 ROW SIGNAL – STANDARD

Millipacs® 5 row signal–standard				Vertical Header (VH)		Shroud	Right Angle Receptacle (RAR)	
				Shielded	Non-Shielded		Top Shielded	Non-Shielded
	Type A	module length 50 mm 110 pos service center	press-fit	HM2P07PD5111N9LF	HM2P07PD5110N9LF	HM2H07P1LF	HM2R01PA5108N9LF	HM2R01PA5100N9LF
			rear-plug-up	HM2P07PK5111GFLF	HM2P07PK5110GFLF			
	Type B	module length 50 mm 125 pos no service center	press-fit	HM2P08PD5111N9LF	HM2P08PD5110N9LF	HM2H08P1LF	HM2R02PA5108N9LF	HM2R02PA5100N9LF
			rear-plug-up	HM2P08PK5111GFLF	HM2P08PK5110GFLF			
	Type AB	module length 50 mm 125 pos guiding pegs	press-fit	HM2P65PD5111N9LF	HM2P65PD5110N9LF	HM2H65P1LF	HM2R65PA5108N9LF	HM2R65PA5100N9LF
			rear-plug-up	HM2P65PK5111GFLF	HM2P65PK5110GFLF			
	Type C	module length 25 mm 55 pos service center–left	press-fit	HM2P09PD5111N9LF	HM2P09PD5110N9LF	HM2H09P1LF	HM2R03PA5108N9LF	HM2R03PA5100N9LF
			rear-plug-up	HM2P09PK5111GFLF	HM2P09PK5110GFLF			
	Type CR	module length 25 mm 55 pos service center–right	press-fit	HM2P80PD5111N9LF	HM2P80PD5110N9LF	HM2H80P1LF	HM2R20PA5108N9LF	HM2R20PA5100N9LF
			rear-plug-up	HM2P80PK5111GFLF	HM2P80PK5110GFLF			

5 ROW SIGNAL – HIGH SPEED 10GB/S

Millipacs® 5 row signal–high speed		Right Angle Receptacle (RAR)	Other Features
	Type A	10127112–1011LF	<ul style="list-style-type: none"> Suitable for data rate up to 10Gb/s according to IEEE 803.2ap Mating compatibility to the IEC 61076–4–101 series 2mm hard metric (HM2) backplane header Row-wise or horizontal pinning or broad side coupling Staggered PCB terminals ensures low crosstalk performances at high frequencies Same outer physical dimensions (except pcb terminal footprint) to IEC 61076–4–101 compliant 2mm hard metric receptacle
	Type AB	10127156–1011LF	
	Type C	10127169–1011LF	

TYPICAL PINNING RECOMMENDATION

f	0	0	0	0	0	0	0	0	0	0	0
e	G	G	S	S	G	G	S	S	G	G	LS
d	S	S	G	G	S	S	G	G	S	S	G
c	G	G	S	S	G	G	S	S	G	G	LS
b	S	S	G	G	S	S	G	G	S	S	G
a	G	G	S	S	G	G	S	S	G	G	LS
z											
Type C	1	2	3	4	5	6	7	8	9	10	11

Legend:

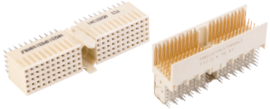
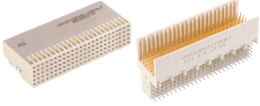
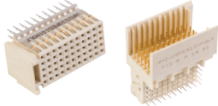
S – High Speed signal pins

LS – Low Speed signal pins




G – Ground pins

For custom pinning configuration requirement, please contact our FCI sales representatives.


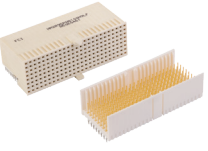
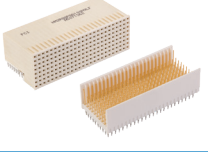
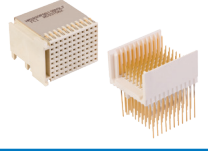
5 ROW SIGNAL – REVERSED

Millipacs® 5 row signal-reversed			Right Angle Header (RAH)		Vertical Receptacle (VR)	
			Top Shielded	Non-Shielded	Shielded	Non-Shielded
	Type A	module length 50 mm 110 pos service center	HM2J07PE5118N9LF	HM2J07PE5110N9LF	HM2S10PE5101N9LF	HM2S10PE5100N9LF
	Type B	module length 50 mm 125 pos no service center	HM2J08PE5118N9LF	HM2J08PE5110N9LF	HM2S02PE5101N9LF	HM2S02PE5100N9LF
	Type C	module length 25 mm 55 pos service center-left	HM2J09PE5118N9LF	HM2J09PE5110N9LF	HM2S30PE5101N9LF	HM2S30PE5100N9LF

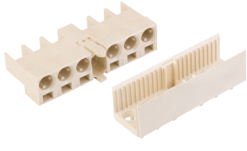
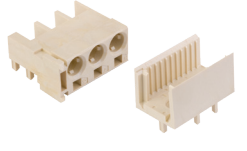
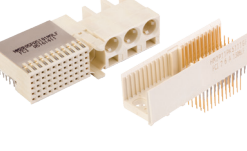
5 ROW SIGNAL – PIN-IN-PASTE

Millipacs® 5 row Pin-in Paste			Vertical Header (VH)
			Shielded
	Type A	with 110 signal contacts	HM2P40SZ5111N9LF
	Type C	with 55 signal contacts	HM2P09SZ5111N9LF
	Type M	with 55 signal contacts and 3 power/coax option	HM2P11SZ5011N9LF


8 ROW SIGNAL – STANDARD



Millipacs® 8 row signal–standard				Vertical Header (VH)		Shroud	Right Angle Receptacle (RAR)	
				Shielded	Non-Shielded		Top Shielded	Non-Shielded
	Type D	module length 50 mm 176 pos service center	press-fit	HM2P87PD8111N9LF	HM2P87PD8110N9LF	HM2H87P1LF	HM2R87PA8108N9LF	HM2R87PA8100N9LF
			rear-plug-up	HM2P87PK8111GFLF	HM2P87PK8110GFLF			
	Type DE	module length 50 mm 200 pos guiding pegs	press-fit	HM2P95PD8111N9LF	HM2P95PD8110N9LF	HM2H95P1LF	HM2R95PA8108N9LF	HM2R95PA8100N9LF
			rear-plug-up	HM2P95PK8111GFLF	HM2P95PK8110GFLF			
	Type E	module length 50 mm 200 pos no service center	press-fit	HM2P88PD8111N9LF	HM2P88PD8110N9LF	HM2H88P1LF	HM2R88PA8101N9LF	HM2R88PA8100N9LF
			rear-plug-up	HM2P88PK8111GFLF	HM2P88PK8110GFLF			
	Type F	module length 25 mm 88 pos service center-left	press-fit	HM2P89PD8111N9LF	HM2P89PD8110N9LF	HM2H89P1LF	HM2R89PA8108N9LF	HM2R89PA8100N9LF
			rear-plug-up	HM2P89PK8111GFLF	HM2P89PK8110GFLF			

SIGNAL & POWER

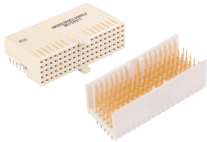
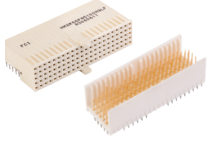
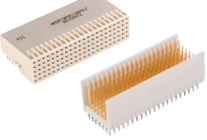
Signal & Power			Vertical Header (VH)	Right Angle Receptacle (RAR)
	Type L	module length 50 mm 6 power positions service center	HM2A30PG5000LF	HM2E30PH5000LF
	Type N	module length 25 mm 3 power positions service center	HM2A32PG5000LF	HM2E32PH5000LF
	Type M	module length 50 mm 3 power + 55 signal positions service center + location pegs	HM2P11PD5111N9LF	HM2R05PA5108N9LF

CABLE CONNECTORS

LF – Low Frequency		26AWG	30AWG – 28AWG	
	Non-Shielded	2 x 5 positions	HM2C06D2C010N9LF	HM2C06D0C010N9LF
		4 x 5 positions	HM2C01D2C010N9LF	HM2C01D0C010N9LF
	Shielded	2 x 5 positions	HM2C09D2C021L9LF	HM2C09D0C021L9LF
		4 x 5 positions	HM2C10D2C021L9LF	HM2C10D0C021L9LF
		6 x 5 positions	HM2C11D2C021L9LF	HM2C11D0C021L9LF
		8 x 5 positions	HM2C12D2C021L9LF	HM2C12D0C021L9LF

Rear plug-up accessories			
	Cable-to-Board Shroud	5 x 5 positions	HM2H04P1LF
		5 x 25 positions	HM2H05P1LF
	Locking Key		HM2LK1LF

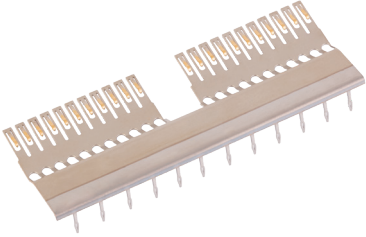
5 ROW – COMPACTPCI®


Millipacs® 5 row– CompactPCI®				Vertical Header (VH)		Shroud	Right Angle Receptacle (RAR)	
				Shielded	Non-Shielded		Top Shielded	Non-Shielded
	Type AB19	module length 38 mm 95 pos guiding pegs	press-fit	HM2P67PD5111N9LF	HM2P67PD5110N9LF	HM2H67P1LF	HM2R67PA5108N9LF	HM2R67PA5100N9LF
			rear-plug-up	HM2P67PK5111GFLF	HM2P67PK5110GFLF			
	Type AB22	module length 44 mm 110 pos guidng pegs	press-fit	HM2P66PD5111N9LF	HM2P66PD5110N9LF	HM2H66P1LF	HM2R66PA5108N9LF	HM2R66PA5100N9LF
			rear-plug-up	HM2P66PK5111GFLF	HM2P66PK5110GFLF			
	Type B22	module length 44 mm 110 pos no service center	press-fit	HM2P70PD5111N9LF	HM2P70PD5110N9LF	HM2H70P1LF	HM2R70PA5108N9LF	HM2R70PA5100N9LF
			rear-plug-up	HM2P70PK5111GFLF	HM2P70PK5110GFLF			

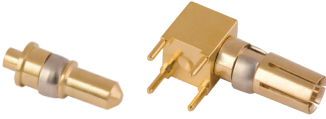
Backplane 2.00mm

▶ Millipacs® Backplane Connectors

ACCESSORIES

Bottom Shield	Connector Type		Part Number
	Type AB19	CompactPCI®	HM2LS66ALF
	Type AB22	CompactPCI®	HM2LS67ALF
	Type B22	CompactPCI®	HM2LS70ALF
	Type A	Millipacs	HM2LS22ALF
	Type AB	Millipacs	HM2LS22ALF
	Type C	Millipacs	HM2LS11ALF
	Type CR	Millipacs	HM2LS11ALF
	Type D	Millipacs	HM2LS22A8LF
	Type DE	Millipacs	HM2LS25A8LF
	Type E	Millipacs	HM2LS25A8LF
	Type F	Millipacs	HM2LS11A8LF
	Type M	Millipacs	HM2LS11ALF

Coding Devices	Color	Plug	Receptacle
	cadmium-yellow	HM2DK3456PLF	HM2DK1278RLF
	brilliant-blue	HM2DK1567PLF	HM2DK2348RLF
	reseda-green	HM2DK2578PLF	HM2DK1346RLF
	strawberry-red	HM2DK1248PLF	HM2DK3567RLF

Power Contacts	Connector Type	Pin Contact	Socket Contact
	Dipsolder Power Contacts (10A max. current)	RM12PIE54ERPLF	RC12PIE52ERPLF

USB 3.1 Gen 1 Type C Connector

Superior performance up to 5Gb/s

COMPACT AND RELIABLE CONNECTOR

USB 3.1 Type C Gen 1 is the new standard plug and receptacle providing multifunction single cable solution for data, power, audio and video. The small form factor made this interconnection the unquestioned technology across all devices. The reversible design enables quick and easy connections no matter which way it is inserted. It supports power delivery up to 100W and performance speed up to 5Gb/s.

- Supports SuperSpeed 5Gb/s
- Reversible plug and cable orientation
- Slim and sleek design
- Better EMI shielding design



FEATURES

- Supports SuperSpeed communication 5Gb/s
- Reversible plug and cable orientation
- Robust and small form factor design
- Better EMI (Electromagnetic Interference) shielding design
- Various options available: Right angle dual SMT and Hybrid style, Top mount and Mid mount, Long shell and Short body
- RoHS compliant and lead-free

BENEFITS

- Minimizes user waiting time
- Ready for next-generation applications
- Ensures quick and easy connections whichever way it is inserted
- Tailored for emerging product designs
- Suitable for applications in very thin platforms and the I&I market
- Protects against EMI and ESD (Electromagnetic Discharge)
- Flexible solution for different applications
- Meets environmental, health and safety requirements

▶ USB 3.1 Gen 1 Type C Connector

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic
- Shell: Stainless Steel
- Terminal: Copper Alloy

MECHANICAL PERFORMANCE

- Mating Force: 5 to 20N
- Durability: 10,000 mating cycles

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance:
 - Initial: 40mΩ max.
 - $\Delta R = \pm 10\text{m}\Omega$ max. after environmental stress
- Insulation Resistance: 100MΩ min.
- Transfer SuperSpeed: 5Gb/s
- Voltage Rating: 100VAC/DC
- Current Rating:
 - 5.0A for VBUS and GND
 - 1.25A for Vconn and GND
 - 0.25A for all other contacts
- Dielectric Withstand Voltage: 100VAC

PACKAGING

- Receptacle: Tape/Reel
- Plug: Tray

SPECIFICATION

- Amphenol Product Specification: GS-12-1336
- Amphenol Packaging Specification: GS-14-2487

ENVIRONMENTAL

- Operating Temperature: -55°C to 85°C








SELECTED PART NUMBERS

Description	Orientation	Mounting Style	Part Numbers
USB 3.1 Gen 1 Type C Receptacle	Right angle	Mid mount dual SMT (Short body)	10137064-00021LF
USB 3.1 Gen 1 Type C Receptacle	Right angle	Top mount SMT + DIP (Short shell)	10137061-00021LF
USB 3.1 Gen 1 Type C Receptacle	Right angle	Top mount SMT + DIP (Short body)	10137062-00021LF
USB 3.1 Gen 1 Type C Receptacle	Right angle	Top mount dual SMT (Short body)	10137065-00021LF
USB 3.1 Gen 1 Type C Receptacle	Right angle	Top mount SMT+ DIP (Angled entrance)	10137066-00021LF

RELIABLE CONNECTORS FOR HARSH ENVIRONMENTS

Amphenol ICC's D-Sub connectors are part of an industry standard for applications requiring robust and reliable connectors. These D-Sub connectors are one of the most popular Input - Output interconnects, addressing a wide variety of applications in Telecommunications, Industrial & Instrumentation, Data, Consumer, Medical & Military markets. Amphenol ICC offers a wide range of D-Sub connectors to meet all design requirements.

D-Sub power connectors are specifically developed for telecom market segments and power applications in the industry. PC board connectors are delivered with preloaded power contacts capable of current rating from 10A to 40A. Cable crimp and solder power contacts comes with color coded plastic clips for easy wire range size identification.

D-Sub Standard Board Mount	D-Sub Cable Connectors	D-Sub High Density Board Mount	D-Sub Power Board Mount
			
High Performance D-Sub Board Mount	D-Sub Economy Range Board Mount	D-Sub MicroTCA® Connectors	D-Sub Accessories
			
D-Sub Pin-in-Paste Connectors	D-Sub Press-fit Connectors	Filtered D-Sub	
			

TARGET MARKETS



▶ D-Subminiature Connectors

TECHNICAL INFORMATION

Mating Orientation	Right Angle or Straight
Plating	Active Area: Gold / GXT® over Nickel Termination Area: Tin over Nickel
Max. Current Rating	5A / 7.5A per contact
Dielectric Withstanding Voltage	1000Vrms
Voltage Rating	300Vrms
Insulation Resistance	≥ 5000 MΩ
Contact Resistance	≤ 10mΩ

FEATURES

- Compact-D design
- Press-fit mounting options
- Various PCB mounting and panel mounting accessory options
- Right angle versions available to meet both Europe and US styles
- Pin-in-Paste connectors
- Has a D-shaped shell design
- RoHS compliant, lead-free and halogen-free
- Power connectors both full and mixed layout available for PCB & Cable applications

BENEFITS

- Solves increasing need for higher density packaging
- Easy press fit mounting and no need for soldering
- Supports various design needs
- Fits into footprint and pitch options of 10.4mm & 2.54mm and 8.08mm & 2.84mm
- Reflow compatible through hole connector. Cost saving option compared to SMT connectors
- Supports the need for polarization
- Meets environmental, health and safety requirements
- Suitable for High current application



SELECTED PART NUMBERS

Part Number	Number of Pins	Configuration	Gender	Notes	Mechanical Performance
LD09P24A4GV00LF	9	Straight Spill	Male	-	50 mating cycles
LD09S24A4GV00LF			Female		
LD09P24A4GX00LF			Male		
LD09S24A4GX00LF			Female		
LD15P24A4GV00LF	15	Straight Spill	Male	-	50 mating cycles
LD15S24A4GV00LF			Female		
LD09P13A4GV00LF	9	Right Angle EU Styles	Male	-	50 mating cycles
LD09S13A4GV00LF			Female		
LD09P13A4GX00LF			Male		
LD09S13A4GX00LF			Female		
LD09P33E4GV00LF	9	Right Angle US Styles	Male	-	50 mating cycles
LD09S33E4GV00LF			Female		
LD09P33E4GX00LF			Male		
LD09S33E4GX00LF			Female		
ICD15S13E4GV00LF	15	-	Female	-	200 mating cycles
ICD15S13E4GX00LF					
8630CH09UNCLF	9	-	-	Plastic Hoods	-
8630CH15UNCLF	15				
863093C09ALF	9				
863093C15ALF	15				
10090926-S156VLF	15	Vertical	Female	High Density	-
10090926-P156VLF		Right Angle	Male		
8655MH0911LF	9	-	-	Metal & Plastic Hoods	-
8655MH1511LF	15				
8655MH0901BLF	9				
8655MH1501BLF	15				
86303637BLF	9				
86303638BLF	15				

► D-Subminiature Connectors



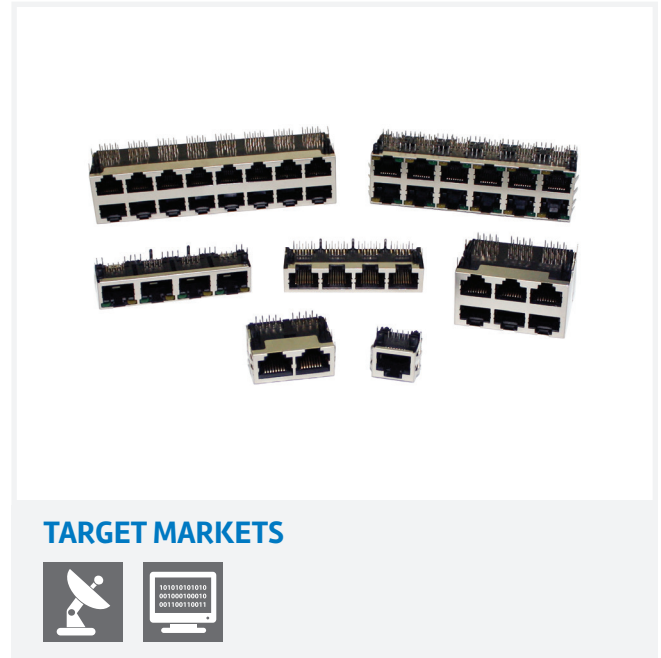
SELECTED PART NUMBERS

Part Number	Number of Pins	Configuration	Gender	Notes	Mechanical Performance
DE09P064TXLF	9	-	Male	-	200 mating cycles
DE09S064TLF			Female		
DB25P064TXLF	25	-	Male	-	200 mating cycles
DB25S064TLF			Female		
DA15P064TXLF	15	-	Male	-	200 mating cycles
DA15S064TLF			Female		
LD25P24A4GV00LF	25	Straight Spill	Male	-	200 mating cycles
LD25S24A4GV00LF			Female		
865609PLTXLF	9	-	-	9 Pin Crimp Cable Connector, Male	200 mating cycles
865609SLTLF				9 Pin Crimp Cable Connector, Female	
865625PLTXLF	25	-	-	25 Pin Crimp Cable Connector, Male	200 mating cycles
865625SLTLF				25 Pin Crimp Cable Connector, Female	
865615PLTXLF	15	-	-	15 Pin Crimp Cable Connector, Male	200 mating cycles
865615SLTLF				15 Pin Crimp Cable Connector, Female	
86564520064LF	-	-	-	Crimp Contacts, 24 – 20 AWG, Male	200 mating cycles
86566520064LF				Crimp Contacts, 24 – 20 AWG, Female	
86564510064LF	-	-	-	Crimp Contacts, 28 – 24 AWG, Male	200 mating cycles
86566510064LF				Crimp Contacts, 28 – 24 AWG, Female	
863093C09MLF	9	-	-	9 Pos Universal Hood Metallised	-
863093C15MLF	15			15 Pos Universal Hood Metallised	
70523CLF	-	-	-	Plastic Dust Cap for 9 Pin Female	-
70518CLF				Plastic Dust Cap for 9 Pin Male	
86553113TLF	-	-	-	Metal Cap	-
86553114TLF					
8655MH2511LF	-	-	-	Common Metal Hood (Straight)	-
8655MH3711LF					
8655MH2501BLF				Metal Hood 15 Pos Angled	
8655MHRA1501LF					
86303639BLF	-	-	-	Solder, Crimp Version Power Contacts to be used with Cable Connector Housing	-
8638PPS4005LF					
8638PSS4005LF					
8638PSS2005LF					
8638PPC1005LF					
8638PSC2005LF					
8638PSS1005LF					
8638PPS2005LF					
8638PPS1005LF					
DA3W3SA00LF	-	-	-	3W3, 7W2, 5W5 Cable Connector Housing	-
DA7W2SA00LF					
DA7W2PA00LF					
DB5W5PA00LF					

ROBUST MODULAR SYSTEM

Amphenol ICC's modular jack connectors include single and multi-port solutions that are widely used in telecom, data, networking and home entertainment markets. It features a simple, flexible and low profile design for LAN application. Cat 3 and Cat 5 designs are available.

- Right angle and vertical configurations
- Through hole and surface mount termination
- 4, 6 and 8 positions



FEATURES

- Right angle and vertical configurations with 4, 6, 8 positions
- SMT termination
- Selective loading and one piece design
- Stackable side by side
- Cat 3 design
- Cat 5 design
- High Temperature material
- Low profile version
- RoHS compliant

BENEFITS

- Suitable for a variety of applications
- Suitable for FFC/FPC/CIC cables
- Easy to use
- Ease of installation
- Suitable for low speed networking applications
- Suitable for high speed Gigabit Ethernet applications
- Able to withstand reflow soldering process
- Accommodates low profile panel cut-outs
- Meets environmental, health and safety requirements

▶ Modular Jack Connectors

TECHNICAL INFORMATION

MATERIAL

- Housing: Glass-filled, Self Extinguishing Thermoplastic
- Flammability Rating: UL94V-0
- Pin: Copper Alloy
- Plating: Au or GXT® over 1.27µm Nickel

MECHANICAL PERFORMANCE

- Pin Retention To Housing: 10N min.
- Durability: 250 to 2500 Mating Cycles

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Current Rating: 3A continuous
- Insulation Resistance: 500MΩ min
- Dielectric Withstanding Voltage: 1500V min.

SPECIFICATION

- Product Specification: Refer to drawing
- Packaging Specification: Refer to drawing

PACKAGING

- Tray
- Tape/Reel

APPROVALS AND CERTIFICATIONS

- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

PART NUMBERS

Single Port Cat3	Termination	Positions	Pegs	Base Part Number
Right Angle	Through Hole (TH)	4,6,8 4,6 8,10	Snap Snap Snap	87180 / 54601 / 88400 (66010/66011 -inverted) / 54602
	Surface Mount (SMT)	4 6 8		73306 73305 73304
Vertical	Through Hole (TH)	4 4 6 6 8	Snap Diamond Snap Diamond Diamond	90511 69253 90512 / 10037501 69254 69255
	Surface Mount (SMT)	4 6 8		87543 / 98431 87545 / 98432 / 98433 (keyed)

Single Port Cat3	Termination	Ports	Shield	Base Part Number
Right Angle	Through Hole (TH)	4,8	Yes	94910
		2, 4, 7, 8	No	94911
		2 (6P + 6P)	No	10053565
		2x4 (Stacked)	Yes	74633
Vertical	Through Hole (TH)	3 (4P+4P+6P)	No	92266

Single Port Cat5	Termination	Ports	Shield	Base Part Number
Right Angle	Through Hole (TH)	4, 8 (Filter)	Yes	95672
		4, 8	Yes	95678
		2, 4, 6, 8	No	95679



SELECTED PART NUMBERS

Part Number	Description	Speed	Positions
54602-910LF	Single port, Right Angle, Through Hole	Cat 3	10
54601-908WPLF	Single port, Right Angle, Through Hole	Cat 3	8
54601-906WPLF	Single port, Right Angle, Through Hole	Cat 3	6
54601-906002WPLF	Single port, Right Angle, Through Hole	Cat 3	4
95672-001LF	Single port, Right Angle, Through Hole	Cat 5	8
95679-001LF	Single port, Right Angle, Through Hole	Cat 5	8



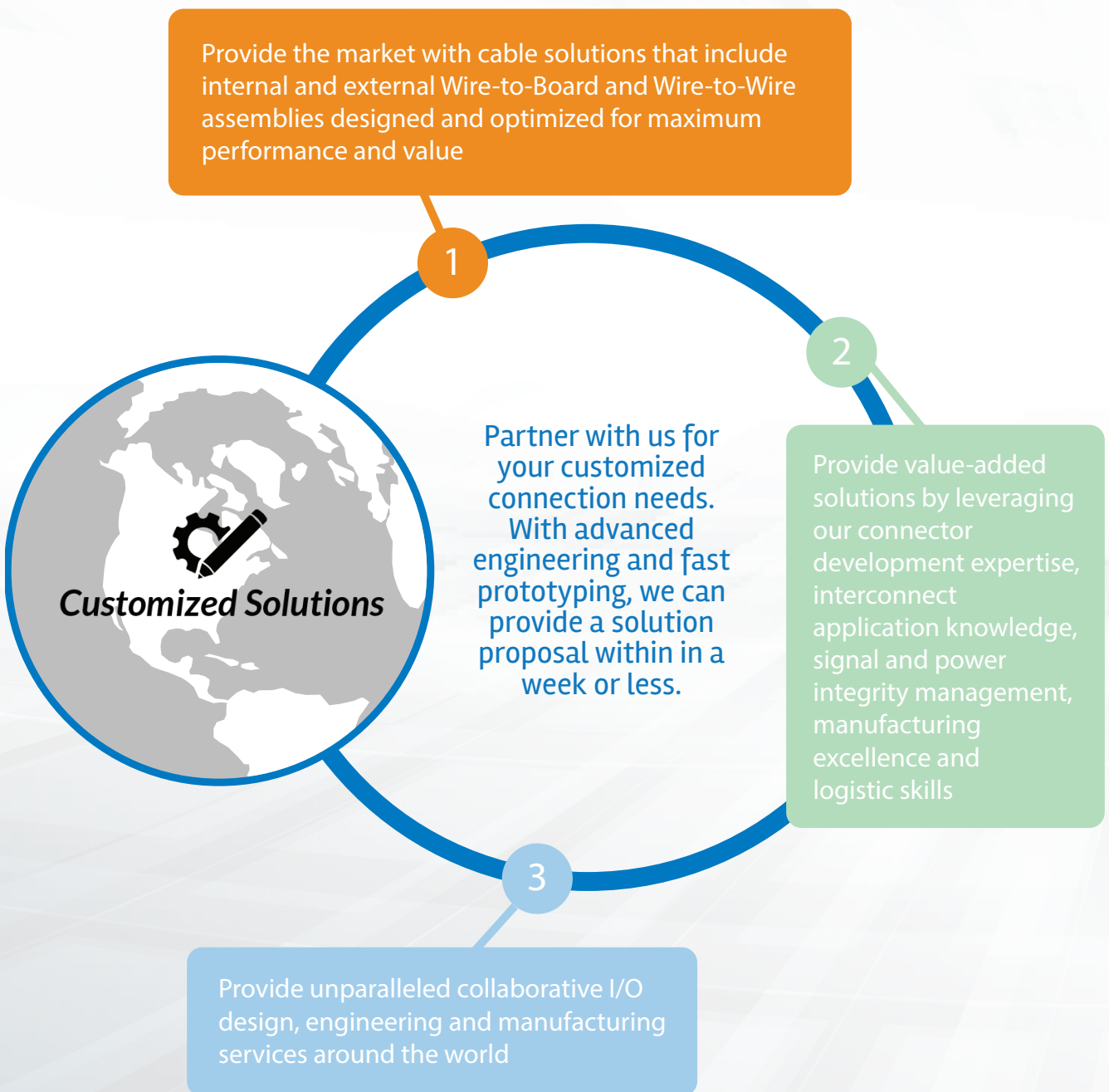
SELECTED PART NUMBERS

Part Number	Description	Speed	Positions
66011-006LF	Single port, Right Angle, Through Hole	Cat 3	6
66010-004LF	Single port, Right Angle, Through Hole	Cat 3	4
54602-908LF	Single port, Right Angle, Through Hole	Cat 3	8
54601-906001WPLF	Single port, Right Angle, Through Hole	Cat 3	2

Whatever you are designing, select Basics to meet your connection needs.

Amphenol ICC is a leading supplier of industry standard and application-specific cable assemblies. Our products are designed to support high speed transmissions of electrical, power, and optical signals for different applications in the market. Customized, professional-grade cable assemblies are also supported by our flexible manufacturing capabilities from design to production.




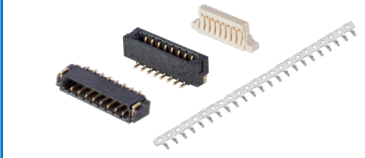
▶ OUR VALUE PROPOSITION



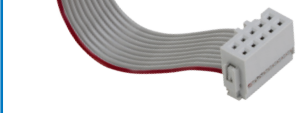
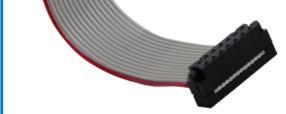

CRIMP-TO-WIRE

Products	Pitch (mm)	Configuration	Wire Range (AWG)
 <p>Minitek® Pwr 5.7</p>	5.70	Dual Row, 2 to 24 Positions	16 to 12
 <p>Minitek® Pwr 4.2</p>	4.20	Dual Row, 2 to 24 positions	28 to 16
 <p>Minitek® Pwr 3.0</p>	3.00	Dual Row, 2 to 24 positions	30 to 20
 <p>Dubox® 2.54mm</p>	2.54	Dual Row, 2 to 36 positions	30 to 20
 <p>PV® 2.54mm</p>	2.54	Dual Row, 2 to 36 positions	32 to 18
 <p>Minitek® Pwr 2.5</p>	2.50	Dual Row, 2 to 24 Positions	26 to 20
 <p>Minitek® 2.00mm</p>	2.00	Dual Row, 2 to 50 positions	30 to 26
 <p>Minitek® 1.50mm</p>	Single Row, 2 to 8 Positions	26 to 20	28 to 24

CRIMP-TO-WIRE

Products	Pitch (mm)	Configuration	Wire Range (AWG)
 Crimp-to-Wire 1.25mm	1.25	Dual Row, 2 to 15 positions	32 to 28
 Crimp-to-Wire 1.20mm	1.20	Dual Row, 3, 4 to 6 positions	32 to 28
 Minitek® 1.00mm	1.00	Single Row, 2 to 20 Positions	32 to 28
 Minitek® 0.80mm	0.80	Single Row, 2 to 20 Positions	32 to 28

INSULATION DISPLACEMENT CONTACT

Products	Pitch (mm)	Configuration	Wire Range (AWG)
 Quickie® 2.54mm	2.54	Dual Row, 2 to 64 positions, with strain relief option	28 to 26
 Minitek® 2.0mm	2.00	Dual Row, 6 to 50 positions, with strain relief option	30 to 26
 Minitek® 1.27mm	1.27	Dual Row, 6 to 26 positions	30

INPUT/OUTPUT

Products	Configuration	Speed
 <p>D-Subminiature</p>	Standard, High density, Power, Mixed Power, Hybrid and Customized	-
 <p>Latch-N-Lok™/USB+ Power (Standard USB+ power to Latch-N-Lok connector)</p>	Latch-N-Lok™: 1x8, 2x4 and 2x6 options USB+ Power: 12V and 24V options 20 and 28AWG wires in shielded raw cable	-
 <p>USB 2.0</p>	Standard, Mini and Micro	480Mb/s
 <p>USB 3.0 and Micro 3.0</p>	Standard and Micro	5Gb/s
 <p>USB 3.1 Type C Gen 1</p>	Type C	5Gb/s
 <p>USB 3.1 Type C Gen 2</p>	Type C	10Gb/s

Contact Us Now For Your Cable Assembly Solutions!

Amphenol ICC offers a wide range of internal and external wire-to-board and wire-to-wire cable solutions. We cater and optimize cable solutions according to your specific needs and requirements. Fill in the form below and send it to basics@amphenol-icc.com for a discussion now!

Cable

Termination 1

Termination 2

Termination 1
Specifications:

Termination 2
Specifications:

Cable					
Discrete Wire		Flat Cable/Ribbon		FFC/FPC	
Wire Range (AWG)		Wire Range (AWG)		Pitch (mm)	
Pitch (mm)		Pitch (mm)			
Circuit Count		Circuit Count		Circuit Count	
UL no.		UL no.			



Part Numbers	Description	Core or Priority	Page
10127716-02LF	Minitek Pwr 3.0 Receptacle Housing, Dual Row, 2 Pos	Core Range	24
10127716-08LF	Minitek Pwr 3.0 Receptacle Housing, Dual Row, 8 Pos	Core Range	24
10127716-16LF	Minitek Pwr 3.0 Receptacle Housing, Dual Row, 16 Pos	Core Range	24
10127716-24LF	Minitek Pwr 3.0 Receptacle Housing, Dual Row, 24 Pos	Core Range	24
10127717-02LF	Minitek Pwr 3.0 Header Housing, Dual Row, 2 Pos	Core Range	21
10127718-001LF	Minitek Pwr 3.0 Receptacle Terminal	Core Range	24
10127718-002PLF	Minitek Pwr 3.0 Receptacle Terminal	Core Range	24
10127719-001LF	Minitek Pwr 3.0 Header Terminal	Core Range	24
10127720-021LF	Minitek Pwr 3.0 RA Header, Dual Row, 2 Pos	Core Range	24
10127720-081LF	Minitek Pwr 3.0 RA Header, Dual Row, 8 Pos	Core Range	24
10127720-242LF	Minitek Pwr 3.0 RA Header, Dual Row, 24 Pos	Core Range	24
10127721-021LF	Minitek Pwr 3.0 VT Header, Dual Row, 2 Pos	Core Range	24
10127721-081LF	Minitek Pwr 3.0 VT Header, Dual Row, 8 Pos	Core Range	24
10127721-082LF	Minitek Pwr 3.0 VT Header, Dual Row, 8 Pos	Core Range	21
10127721-242LF	Minitek Pwr 3.0 VT Header, Dual Row, 24 Pos	Core Range	24
10127815-02LF	Minitek Pwr 4.2 Receptacle Housing, Dual Row, 2 Pos	Core Range	24
10127815-04LF	Minitek Pwr 4.2 Receptacle Housing, Dual Row, 4 Pos	Core Range	24
10127815-12LF	Minitek Pwr 4.2 Receptacle Housing, Dual Row, 12 Pos	Core Range	24
10127816-02LF	Minitek Pwr 4.2 Header Housing, Dual Row, 2 Pos	Core Range	24
10127817-122LF	Minitek Pwr 4.2 Receptacle Terminal	Core Range	24
10127817-221LF	Minitek Pwr 4.2 Receptacle Terminal	Core Range	24
10127818-121LF	Minitek Pwr 4.2 Header Terminal	Core Range	24
10127819-12121LF	Minitek Pwr 4.2 RA Header, Dual Row, 12 Pos	Core Range	21
10127819-12212PLF	Minitek Pwr 4.2 RA Header, Dual Row, 12 Pos	Core Range	24
10127820-0422LF	Minitek Pwr 4.2 VT Header, Dual Row, 4 Pos	Core Range	24
10127820-1221LF	Minitek Pwr 4.2 VT Header, Dual Row, 12 Pos	Core Range	24
10136653	Minitek Pwr 3.0 Receptacle Housing, Single Row	Core Range	24
10136654	Minitek Pwr 3.0 RA Header, Single Row	Core Range	24
10136655	Minitek Pwr 3.0 RA Header, Single Row, SMT With Hold Down	Core Range	24
10136656	Minitek Pwr 3.0 VT Header, Single Row	Core Range	24
10137867	Minitek Pwr 3.0 RA Header, Single Row, SMT With DIP Hold Down	Core Range	21
10136644	Minitek Pwr 4.2 Receptacle Housing, Single Row	Core Range	24
10136645	Minitek Pwr 4.2 Heading Housing, Single Row	Core Range	24
10136646	Minitek Pwr 4.2 RA Header, Single Row	Core Range	24
10136647	Minitek Pwr 4.2 VT Header, Single Row	Core Range	24
69830-006LF	Quickie 2.54mm IDC Header, Dual Row, 6 Pos	Core Range	51
69830-008LF	Quickie 2.54mm IDC Header, Dual Row, 8 Pos	Core Range	51
69830-010LF	Quickie 2.54mm IDC Header, Dual Row, 10 Pos	Core Range	51
69830-012LF	Quickie 2.54mm IDC Header, Dual Row, 12 Pos	Core Range	51
69830-016LF	Quickie 2.54mm IDC Header, Dual Row, 16 Pos	Core Range	51
69830-020LF	Quickie 2.54mm IDC Header, Dual Row, 20 Pos	Core Range	51
71600-006LF	Quickie 2.54mm IDC Receptacle, Dual Row, 6 Pos	Core Range	50
71600-008LF	Quickie 2.54mm IDC Receptacle, Dual Row, 8 Pos	Core Range	50
71600-010LF	Quickie 2.54mm IDC Receptacle, Dual Row, 10 Pos	Core Range	50
71600-014LF	Quickie 2.54mm IDC Receptacle, Dual Row, 14 Pos	Core Range	50
71600-016LF	Quickie 2.54mm IDC Receptacle, Dual Row, 16 Pos	Core Range	50
71600-018LF	Quickie 2.54mm IDC Receptacle, Dual Row, 18 Pos	Core Range	50
71600-020LF	Quickie 2.54mm IDC Receptacle, Dual Row, 20 Pos	Core Range	50
71600-024LF	Quickie 2.54mm IDC Receptacle, Dual Row, 24 Pos	Core Range	50
71600-026LF	Quickie 2.54mm IDC Receptacle, Dual Row, 26 Pos	Core Range	50
71600-030LF	Quickie 2.54mm IDC Receptacle, Dual Row, 30 Pos	Core Range	50

Part Numbers	Description	Core or Priority	Page
71600-034LF	Quickie 2.54mm IDC Receptacle, Dual Row, 34 Pos	Core Range	50
71600-108LF	Quickie 2.54mm IDC Receptacle, Dual Row, 8 Pos, No Strain Relief	Core Range	50
71600-110LF	Quickie 2.54mm IDC Receptacle, Dual Row, 10 Pos, No Strain Relief	Core Range	50
71600-114LF	Quickie 2.54mm IDC Receptacle, Dual Row, 14 Pos, No Strain Relief	Core Range	50
71600-116LF	Quickie 2.54mm IDC Receptacle, Dual Row, 16 Pos, No Strain Relief	Core Range	50
71600-118LF	Quickie 2.54mm IDC Receptacle, Dual Row, 18 Pos, No Strain Relief	Core Range	50
71600-120LF	Quickie 2.54mm IDC Receptacle, Dual Row, 20 Pos, No Strain Relief	Core Range	50
71600-124LF	Quickie 2.54mm IDC Receptacle, Dual Row, 24 Pos, No Strain Relief	Core Range	50
71600-126LF	Quickie 2.54mm IDC Receptacle, Dual Row, 26 Pos, No Strain Relief	Core Range	50
71600-130LF	Quickie 2.54mm IDC Receptacle, Dual Row, 30 Pos, No Strain Relief	Core Range	50
71600-134LF	Quickie 2.54mm IDC Receptacle, Dual Row, 34 Pos, No Strain Relief	Core Range	50
71918-106LF	Quickie 2.54mm Eject Latch Header, VT, 6 Pos	Core Range	49
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20021521-00020C1LF	Minitek 1.27mm IDC Header, VT, SMT, 20 Pos	Priority Part	82
20021621-00010C1LF	Minitek 1.27mm Eject Latch Header, VT, SMT, 10 Pos	Priority Part	82
20021621-00012C1LF	Minitek 1.27mm Eject Latch Header, VT, SMT, 12 Pos	Priority Part	82
20021621-00016C1LF	Minitek 1.27mm Eject Latch Header, VT, SMT, 16 Pos	Priority Part	82
20021621-00020C1LF	Minitek 1.27mm Eject Latch Header, VT, SMT, 20 Pos	Priority Part	82
LD09P24A4GV00LF	D-Sub 9 Pin Straight Spill, DD Male with Boardlock + Female screw	Core Range	139
LD09S24A4GV00LF	D-Sub 9 Pin Straight Spill, DD Female with Boardlock + Female screw	Core Range	139
LD09P24A4GX00LF	D-Sub 9 Pin Straight Spill, DD Male with Boardlock + Threaded insert	Core Range	139
LD09S24A4GX00LF	D-Sub 9 Pin Straight Spill, DD Female with Boardlock + Threaded insert	Core Range	139
LD15P24A4GV00LF	D-Sub 15 Pin Straight Spill, DD Male with Boardlock + Female screw	Core Range	139
LD15S24A4GV00LF	D-Sub 15 Pin Straight Spill, DD Female with Boardlock + Female screw	Core Range	139
LD09P13A4GV00LF	D-Sub 9 Pin RA EU Style, DD Male with Boardlock + Female screw	Core Range	139
LD09S13A4GV00LF	D-Sub 9 Pin RA EU Style, DD Female with Boardlock + Female screw	Core Range	139
LD09P13A4GX00LF	D-Sub 9 Pin RA EU Style, DD Male with Boardlock + Threaded insert	Core Range	139
LD09S13A4GX00LF	D-Sub 9 Pin RA EU Style, DD Female with Boardlock + Threaded insert	Core Range	139
LD09P33E4GV00LF	D-Sub 9 Pin RA US Style, DD Male with Boardlock + Female screw	Core Range	139
LD09S33E4GV00LF	D-Sub 9 Pin RA US Style, DD Female with Boardlock + Female screw	Core Range	139
LD09S33E4GX00LF	D-Sub 9 Pin RA US Style, DD Male with Boardlock + Threaded insert	Core Range	139
LD09P33E4GX00LF	D-Sub 9 Pin RA US Style, DD Female with Boardlock + Threaded insert	Core Range	139
ICD15S13E4GV00LF	D-Sub 15 Pin RA High density Dsub Female with Boardlock + Female screw	Core Range	139
ICD15S13E4GX00LF	D-Sub 15 Pin RA High density Dsub Female with Boardlock + Threaded insert	Core Range	139
8630CH09UNCLF	D-Sub 9 Pos Combined Hood Plastic	Core Range	139
8630CH15UNCLF	D-Sub 15 Pos Combined Hood Plastic	Core Range	139
863093C09ALF	D-Sub 9 Pos Universal Hood Plastic	Core Range	139
863093C15ALF	D-Sub 15 Pos Universal Hood Plastic	Core Range	139
10090929-S154VLF	D-Sub High Density, 15 Pin, VT, Female	Core Range	139
10090926-P156VLF	D-Sub High Density, 15 Pin, RA, Male	Core Range	139
8655MH0911LF	D-Sub Common Metal Hood (Straight)	Core Range	139
8655MH1511LF	D-Sub Common Metal Hood (Straight)	Core Range	139
8655MH0901BLF	D-Sub Common Metal Hood (Straight)	Core Range	139
8655MH1501BLF	D-Sub Common Metal Hood (Straight)	Core Range	139
86303637BLF	D-Sub Common Hood Plastic 9 pos	Core Range	139
86303638BLF	D-Sub Common Hood Plastic 15 Pos	Core Range	139
DE09P064TXLF	D-Sub 9 Pin Solder Cup, Male, Cable Connector	Priority Part	140
DE09S064TLF	D-Sub 9 Pin Solder Cup, Female, Cable Connector	Priority Part	140
DB25P064TXLF	D-Sub 25 Pin Solder Cup, Male, Cable Connector	Priority Part	140
DB25S064TLF	D-Sub 25 Pin Solder Cup, Female, Cable Connector	Priority Part	140
DA15P064TXLF	D-Sub 15 Pin Solder Cup, Male, Cable Connector	Priority Part	140
DA15S064TLF	D-Sub 15 Pin Solder Cup, Female, Cable Connector	Priority Part	140
LD25P24A4GV00LF	D-Sub 25 Pin Straight Spill, DD Male with Boardlock + Female screw	Priority Part	140
LD25S24A4GV00LF	D-Sub 25 Pin Straight Spill, DD Female with Boardlock + Female screw	Priority Part	140
865609PLTXLF	D-Sub 9 Pin Crimp Cable Connector, Male	Priority Part	140
865609SLTLF	D-Sub 9 Pin Crimp Cable Connector, Female	Priority Part	140
865625PLTXLF	D-Sub 25 Pin Crimp Cable Connector, Male	Priority Part	140
865625SLTLF	D-Sub 25 Pin Crimp Cable Connector, Female	Priority Part	140
865615PLTXLF	D-Sub 15 Pin Crimp Cable Connector, Male	Priority Part	140

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865615SLTLF	D-Sub 15 Pin Crimp Cable Connector, Female	Priority Part	140
86564520064LF	D-Sub Crimp Contacts, 24 to 20 AWG, Male	Priority Part	140
86566520064LF	D-Sub Crimp Contacts, 24 to 20 AWG, Female	Priority Part	140
86564510064LF	D-Sub Crimp Contacts, 28 to 24 AWG, Male	Priority Part	140
86566510064LF	D-Sub Crimp Contacts, 28 to 24 AWG, Female	Priority Part	140
863093C09MLF	D-Sub 9 Pos Universal Hood Metallised	Priority Part	140
863093C15MLF	D-Sub 15 Pos Universal Hood Metallised	Priority Part	140
70523CLF	D-Sub Plastic Dust Cap for 9 Pin Female	Priority Part	140
70518CLF	D-Sub Plastic Dust Cap for 9 Pin Male	Priority Part	140
86553113TLF	D-Sub Metal Cap	Priority Part	140
86553114TLF	D-Sub Metal Cap	Priority Part	140
8655MH2511LF	D-Sub Common Metal Hood (Straight)	Priority Part	140
8655MH3711LF	D-Sub Common Metal Hood (Straight)	Priority Part	140
8655MH25018LF	D-Sub Common Metal Hood (Straight)	Priority Part	140
8655MHRA1501LF	D-Sub Metal Hood (RA)	Priority Part	140
86303639BLF	D-Sub Common Hood Plastic, 25 Pos	Priority Part	140
8638PPS4005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PSS4005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PSS2005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PPC1005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PSC2005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PSS1005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PPS2005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
8638PPS1005LF	D-Sub, Match with DA3W or DA7W.. DB5W	Priority Part	140
DA3W3SA00LF	D-Sub, Match with 5KYF- Power Contact	Priority Part	140
DA7W2SA00LF	D-Sub, Match with 5KYF- Power Contact	Priority Part	140
DA7W2PA00LF	D-Sub, Match with 5KYF- Power Contact	Priority Part	140
DB5W5PA00LF	D-Sub, Match with 5KYF- Power Contact	Priority Part	140
54602-910LF	ModJack Single Port, 10P10C, RA, TH, Cat 3	Core Range	142
54601-908WPLF	ModJack Single Port, 8P8C, RA, TH, Cat 3	Core Range	142
54601-906WPLF	ModJack Single Port, 6P6C, RA, TH, Cat 3	Core Range	142
54601-906002WPLF	ModJack Single Port, 6P4C, RA, TH, Cat 3	Core Range	142
95672-001LF	ModJack Single Port, 8 Pos, RA, TH, Cat 5, Shielded	Core Range	142
95679-001LF	ModJack Single Port, 8 Pos, RA, TH, Cat 5, Unshielded	Core Range	142
66011-006LF	ModJack Single Port, 6P6C, RA, TH, Cat 3, Inverted Latch	Priority Part	142
66010-004LF	ModJack Single Port, 4P4C, RA, TH, Cat 3, Inverted Latch	Priority Part	142
54602-908LF	ModJack Single Port, 8P8C, RA, TH, Cat 3	Priority Part	142
54601-906001WPLF	ModJack Single Port, 6P4C, RA, TH, Cat 3	Priority Part	142
61082-041402LF	BergStak 0.80mm, Receptacle R1, 40 Pos	Priority Part	86
61082-042402LF	BergStak 0.80mm, Receptacle R2, 40 Pos	Priority Part	86
61082-043402LF	BergStak 0.80mm, Receptacle R3, 40 Pos	Priority Part	86
61082-061402LF	BergStak 0.80mm, Receptacle R1, 60 Pos	Priority Part	86
61082-062402LF	BergStak 0.80mm, Receptacle R2, 60 Pos	Priority Part	86
61082-063402LF	BergStak 0.80mm, Receptacle R3, 60 Pos	Priority Part	86
61082-081402LF	BergStak 0.80mm, Receptacle R1, 80 Pos	Priority Part	86
61082-082402LF	BergStak 0.80mm, Receptacle R2, 80 Pos	Priority Part	86
61082-083402LF	BergStak 0.80mm, Receptacle R3, 80 Pos	Priority Part	86
61082-101402LF	BergStak 0.80mm, Receptacle R1, 100 Pos	Priority Part	86
61082-102402LF	BergStak 0.80mm, Receptacle R2, 100 Pos	Priority Part	86
61082-103402LF	BergStak 0.80mm, Receptacle R3, 100 Pos	Priority Part	86
61082-121402LF	BergStak 0.80mm, Receptacle R1, 120 Pos	Priority Part	86
61082-122402LF	BergStak 0.80mm, Receptacle R2, 120 Pos	Priority Part	86
61082-123402LF	BergStak 0.80mm, Receptacle R3, 120 Pos	Priority Part	86
61083-041402LF	BergStak 0.80mm, Plug P1, 40 Pos	Priority Part	86
61083-042402LF	BergStak 0.80mm, Plug P2, 40 Pos	Priority Part	86
61083-043402LF	BergStak 0.80mm, Plug P3, 40 Pos	Priority Part	86
61083-044402LF	BergStak 0.80mm, Plug P4, 40 Pos	Priority Part	86
61083-061402LF	BergStak 0.80mm, Plug P1, 60 Pos	Priority Part	86
61083-062402LF	BergStak 0.80mm, Plug P2, 60 Pos	Priority Part	86
61083-063402LF	BergStak 0.80mm, Plug P3, 60 Pos	Priority Part	86
61083-064402LF	BergStak 0.80mm, Plug P4, 60 Pos	Priority Part	86
61083-081402LF	BergStak 0.80mm, Plug P1, 80 Pos	Priority Part	86
61083-082402LF	BergStak 0.80mm, Plug P2, 80 Pos	Priority Part	86
61083-083402LF	BergStak 0.80mm, Plug P3, 80 Pos	Priority Part	86
61083-084402LF	BergStak 0.80mm, Plug P4, 80 Pos	Priority Part	86
61083-101402LF	BergStak 0.80mm, Plug P1, 100 Pos	Priority Part	86

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61083-102402LF	BergStak 0.80mm, Plug P2, 100 Pos	Priority Part	86
61083-103402LF	BergStak 0.80mm, Plug P3, 100 Pos	Priority Part	86
61083-104402LF	BergStak 0.80mm, Plug P4, 100 Pos	Priority Part	86
61083-121402LF	BergStak 0.80mm, Plug P1, 120 Pos	Priority Part	86
61083-122402LF	BergStak 0.80mm, Plug P2, 120 Pos	Priority Part	86
61083-123402LF	BergStak 0.80mm, Plug P3, 120 Pos	Priority Part	86
61083-124402LF	BergStak 0.80mm, Plug P4, 120 Pos	Priority Part	86
10132797-011100LF	BergStak 0.50mm, Plug, 10 Pos, 2.3mm Height	Core Range	89
10132798-011100LF	BergStak 0.50mm, Receptacle, 10 Pos, 2.15mm Height	Core Range	89
10132797-033100LF	BergStak 0.50mm, Plug, 30 Pos, 3.3mm Height	Core Range	89
10132798-031100LF	BergStak 0.50mm, Receptacle, 30 Pos, 2.15mm Height	Core Range	89
10132797-055100LF	BergStak 0.50mm, Plug, 50 Pos, 4.3mm Height	Core Range	89
10132798-052100LF	BergStak 0.50mm, Receptacle, 50 Pos, 2.7mm Height	Core Range	89
10132797-065100LF	BergStak 0.50mm, Plug, 60 Pos, 4.3mm Height	Core Range	89
10132797-067100LF	BergStak 0.50mm, Plug, 60 Pos, 5.3mm Height	Core Range	89
10132798-062100LF	BergStak 0.50mm, Receptacle, 60 Pos, 2.7mm Height	Core Range	89
SFV4R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 4 Pos, Bottom Contact	Core Range	99
SFV8R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 8 Pos, Bottom Contact	Core Range	99
SFV12R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 12 Pos, Bottom Contact	Core Range	99
SFV14R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 14 Pos, Bottom Contact	Core Range	99
SFV18R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 18 Pos, Bottom Contact	Core Range	99
SFV24R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 24 Pos, Bottom Contact	Core Range	99
SFV30R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 30 Pos, Bottom Contact	Core Range	99
SFV34R-3STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 34 Pos, Bottom Contact	Core Range	99
SFV4R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 4 Pos, Top Contact	Core Range	99
SFV8R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 8 Pos, Top Contact	Core Range	99
SFV12R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 12 Pos, Top Contact	Core Range	99
SFV14R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 14 Pos, Top Contact	Core Range	99
SFV18R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 18 Pos, Top Contact	Core Range	99
SFV24R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 24 Pos, Top Contact	Core Range	99
SFV30R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 30 Pos, Top Contact	Core Range	99
SFV34R-4STBE1HLF	SFV-R Series, 0.5mm, ZIF, Au, RA, 34 Pos, Top Contact	Core Range	99
62674-81121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 8 Pos	Core Range	99
62674-121121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 12 Pos	Core Range	99
62674-161121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 16 Pos	Core Range	99
62674-201121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 20 Pos	Core Range	99
62674-211121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 21 Pos	Core Range	99
62674-221121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 22 Pos	Core Range	99
62674-241121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 24 Pos	Core Range	99
62674-251121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 25 Pos	Core Range	99
62674-261121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 26 Pos	Core Range	99
62674-281121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 28 Pos	Core Range	99
62674-301121ALF	SFV-S Series, 0.5mm, ZIF, Au, VT, 30 Pos	Core Range	99
10051922-810EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 8 Pos, Bottom Contact	Core Range	99
10051922-1210EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 12 Pos, Bottom Contact	Core Range	99
10051922-1610EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 16 Pos, Bottom Contact	Core Range	99
10051922-2010EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 20 Pos, Bottom Contact	Core Range	99
10051922-2410EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 24 Pos, Bottom Contact	Core Range	99
10051922-2810EHLF	VLL Series, 0.5mm, ZIF, Au, RA, 28 Pos, Bottom Contact	Core Range	99

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HF14R-2STAE1HLF	HF14-R Series, 1.00mm, Non-ZIF, Au, RA, 14 Pos, Top Contact, Halogen-Free	Priority Part	100
HF18R-2STAE1HLF	HF18-R Series, 1.00mm, Non-ZIF, Au, RA, 18 Pos, Top Contact, Halogen-Free	Priority Part	100
HF20R-2STAE1HLF	HF20-R Series, 1.00mm, Non-ZIF, Au, RA, 20 Pos, Top Contact, Halogen-Free	Priority Part	100
HF24R-2STAE1HLF	HF24-R Series, 1.00mm, Non-ZIF, Au, RA, 24 Pos, Top Contact, Halogen-Free	Priority Part	100
HF28R-2STAE1HLF	HF28-R Series, 1.00mm, Non-ZIF, Au, RA, 28 Pos, Top Contact, Halogen-Free	Priority Part	100
HF30R-2STAE1HLF	HF30-R Series, 1.00mm, Non-ZIF, Au, RA, 30 Pos, Top Contact, Halogen-Free	Priority Part	100
HF8S-2STAE1HLF	HF8-S Series, 1.00mm, Non-ZIF, Au, VT, 8 Pos, Top Contact, Halogen-Free	Priority Part	100
HF12S-2STAE1HLF	HF12-S Series, 1.00mm, Non-ZIF, Au, VT, 12 Pos, Top Contact, Halogen-Free	Priority Part	100
HF14S-2STAE1HLF	HF14-S Series, 1.00mm, Non-ZIF, Au, VT, 14 Pos, Top Contact, Halogen-Free	Priority Part	100
HF18S-2STAE1HLF	HF18-S Series, 1.00mm, Non-ZIF, Au, VT, 18 Pos, Top Contact, Halogen-Free	Priority Part	100
HF20S-2STAE1HLF	HF20-S Series, 1.00mm, Non-ZIF, Au, VT, 20 Pos, Top Contact, Halogen-Free	Priority Part	100
HF24S-2STAE1HLF	HF24-S Series, 1.00mm, Non-ZIF, Au, VT, 24 Pos, Top Contact, Halogen-Free	Priority Part	100
HF28S-2STAE1HLF	HF28-S Series, 1.00mm, Non-ZIF, Au, VT, 28 Pos, Top Contact, Halogen-Free	Priority Part	100
HF30S-2STAE1HLF	HF30-S Series, 1.00mm, Non-ZIF, Au, VT, 30 Pos, Top Contact, Halogen-Free	Priority Part	100
SFW4R-3STE1HLF	SFW4-R Series, 1.00mm, ZIF, Tin, RA, 4 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW8R-3STE1HLF	SFW8-R Series, 1.00mm, ZIF, Tin, RA, 8 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW12R-3STE1HLF	SFW12-R Series, 1.00mm, ZIF, Tin, RA, 12 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW14R-3STE1HLF	SFW14-R Series, 1.00mm, ZIF, Tin, RA, 14 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW18R-3STE1HLF	SFW18-R Series, 1.00mm, ZIF, Tin, RA, 18 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW24R-3STE1HLF	SFW24-R Series, 1.00mm, ZIF, Tin, RA, 24 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW30R-3STE1HLF	SFW30-R Series, 1.00mm, ZIF, Tin, RA, 30 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW34R-3STE1HLF	SFW34-R Series, 1.00mm, ZIF, Tin, RA, 34 Pos, Bottom Contact, Cable Lock	Priority Part	100
SFW4R-4STE1HLF	SFW4-R Series, 1.00mm, ZIF, Tin, RA, 4 Pos, Top Contact, Cable Lock	Priority Part	100
SFW8R-4STE1HLF	SFW8-R Series, 1.00mm, ZIF, Tin, RA, 8 Pos, Top Contact, Cable Lock	Priority Part	100
SFW12R-4STE1HLF	SFW12-R Series, 1.00mm, ZIF, Tin, RA, 12 Pos, Top Contact, Cable Lock	Priority Part	100
SFW14R-4STE1HLF	SFW14-R Series, 1.00mm, ZIF, Tin, RA, 14 Pos, Top Contact, Cable Lock	Priority Part	100
SFW18R-4STE1HLF	SFW18-R Series, 1.00mm, ZIF, Tin, RA, 18 Pos, Top Contact, Cable Lock	Priority Part	100
SFW24R-4STE1HLF	SFW24-R Series, 1.00mm, ZIF, Tin, RA, 24 Pos, Top Contact, Cable Lock	Priority Part	100
SFW30R-4STE1HLF	SFW30-R Series, 1.00mm, ZIF, Tin, RA, 30 Pos, Top Contact, Cable Lock	Priority Part	100
SFW34R-4STE1HLF	SFW34-R Series, 1.00mm, ZIF, Tin, RA, 34 Pos, Top Contact, Cable Lock	Priority Part	100
HM2J07PE5110N9LF	Millipacs 5 Row RA Header, Type A With 110 Signal Pins	Core range	130
HM2J07PE5118N9LF	Millipacs 5 Row RA Header, Type A Shielded With 110 Signal Pins	Core range	130
HM2J08PE5110N9LF	Millipacs 5 Row RA Header, Type B With 125 Signal Pins	Core range	130
HM2J08PE5118N9LF	Millipacs 5 Row RA Header, Type B Shielded With 125 Signal Pins	Core range	130
HM2J09PE5110N9LF	Millipacs 5 Row RA Header, Type C With 55 Signal Pins	Core range	130
HM2J09PE5118N9LF	Millipacs 5 Row RA Header, Type C Shielded With 55 Signal Pins	Core range	130
HM2J65PE5110N9LF	Millipacs 5 Row RA Header, Type AB With 125 Signal Pins	Core range	130
HM2J65PE5118N9LF	Millipacs 5 Row RA Header, Type AB Shielded With 125 Signal Pins	Core range	130
HM2P07PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type A With 110 Signal Pins	Core range	130

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HM2P07PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type A With 110 Signal Pins	Core range	130
HM2P07PDG1A1N9LF	Millipacs 5 Row VT Press-fit Header, Type A With 110 Signal Pins	Core range	130
HM2P09PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type C With 55 Signal Pins	Core range	130
HM2P09PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type C With 55 Signal Pins	Core range	130
HM2P09PDE120N9LF	Millipacs 5 Row VT Press-fit Header, Type C With 55 Signal Pins	Core range	130
HM2P09PDE1U0N9LF	Millipacs 5 Row VT Press-fit Header, Type C With 55 Signal Pins	Core range	130
HM2P65PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 25 With 125 Signal Pins	Core range	130
HM2P65PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 25 With 125 Signal Pins	Core range	130
HM2P66PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 22 With 110 Signal Pins	Core range	130
HM2P66PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 22 With 110 Signal Pins	Core range	130
HM2P67PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 19 With 95 Signal Pins	Core range	130
HM2P67PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type AB 19 With 95 Signal Pins	Core range	130
HM2P70PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type B 22 With 110 Signal Pins	Core range	130
HM2P70PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type B 22 With 110 Signal Pins	Core range	130
HM2P70PDE121N9LF	Millipacs 5 Row VT Press-fit Header, Type B 22 With 110 Signal Pins	Core range	130
HM2P71PD5110N9LF	Millipacs 5 Row VT Press-fit Header, Type B 19 With 95 Signal Pins	Core range	130
HM2P71PD5111N9LF	Millipacs 5 Row VT Press-fit Header, Type B 19 With 95 Signal Pins	Core range	130
HM2P87PD8110N9LF	Millipacs 8 Row VT Press-fit Header, Type D With 176 Signal Pins	Core range	130
HM2P87PD8111N9LF	Millipacs 8 Row VT Press-fit Header, Type D With 176 Signal Pins	Core range	130
HM2P88PD8110N9LF	Millipacs 8 Row VT Press-fit Header, Type E With 200 Signal Pins	Core range	130
HM2P88PD8111N9LF	Millipacs 8 Row VT Press-fit Header, Type E With 200 Signal Pins	Core range	130
HM2P89PD8110N9LF	Millipacs 8 Row VT Press-fit Header, Type F With 88 Signal Pins	Core range	130
HM2P89PD8111N9LF	Millipacs 8 Row VT Press-fit Header, Type F With 88 Signal Pins	Core range	130
HM2P95PD8110N9LF	Millipacs 8 Row VT Press-fit Header, Type DE With 200 Signal Pins	Core range	130
HM2P95PD8111N9LF	Millipacs 8 Row VT Press-fit Header, Type DE With 200 Signal Pins	Core range	130
HM2R01PA5100N9LF	Millipacs 5 Row RA Type A Unshielded	Core range	130
HM2R01PA5108N9LF	Millipacs 5 Row RA Type A Shielded	Core range	130
HM2R02PA5100N9LF	Millipacs 5 Row RA Type B Unshielded	Core range	130
HM2R02PA5108N9LF	Millipacs 5 Row RA Type B Shielded	Core range	130
HM2R03PA5100N9LF	Millipacs 5 Row RA Type C Unshielded	Core range	130
HM2R03PA5108N9LF	Millipacs 5 Row RA Type C Shielded	Core range	130
HM2R10PA5100N9LF	Millipacs 5 Row RA Type A Unshielded	Core range	130
HM2R10PA5108N9LF	Millipacs 5 Row RA Type A Shielded	Core range	130
HM2R30PA5100N9LF	Millipacs 5 Row RA Type C Unshielded	Core range	130
HM2R30PA5108N9LF	Millipacs 5 Row RA Type C Shielded	Core range	130
HM2R65PA5100N9LF	Millipacs 5 Row RA Press-fit Header, Type AB With 125 Signal Pins	Core range	130
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