



Minitek®

Product Presentation

Basics Portfolio



Agenda



1. Value Proposition
2. Product Overview
3. Product Specifications
4. Features & Benefits
5. Markets & Applications
6. Marcomm Collaterals

Minitek®



Value Proposition

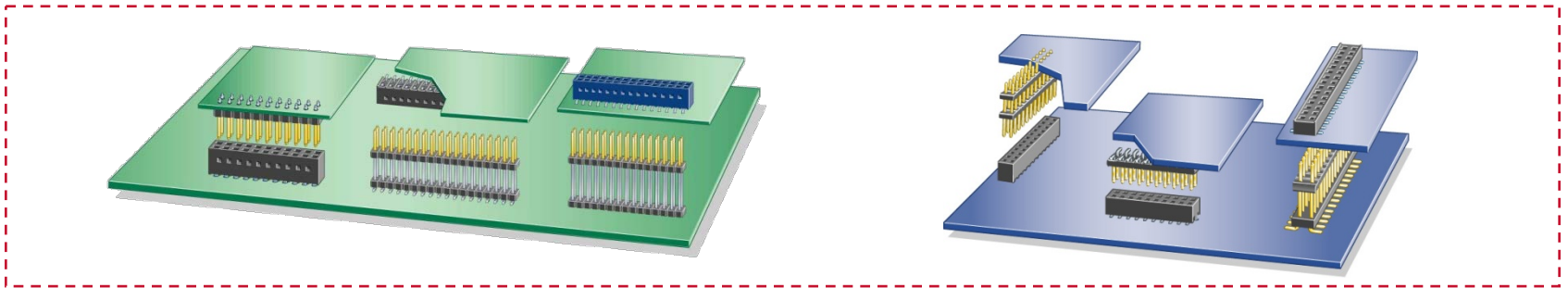
Minitek® is the **most complete** system on the market with all types of headers and receptacles.

Minitek® solution is available for board-to-board and wire/cable-to-board connectors and is fully intermateable that makes the solution **modular**.

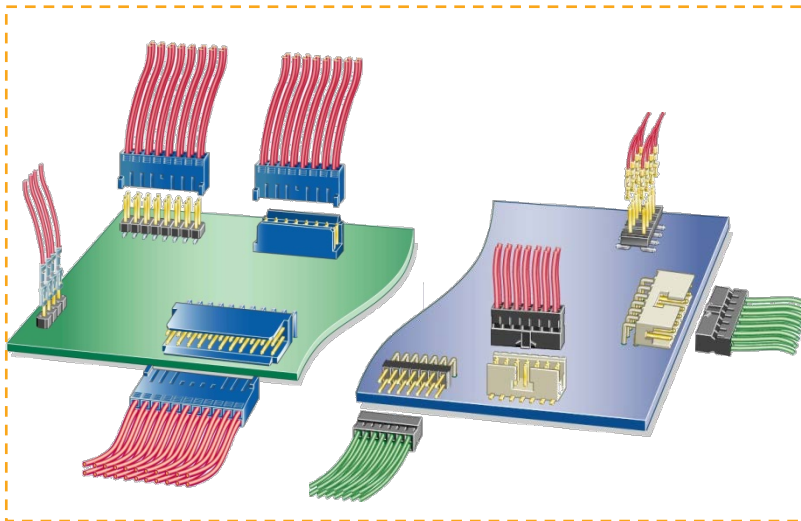
Minitek® has also **2.00mm pitch** not only the 2.54mm, this allow to **reduce the space** needed on the Board **by 38%**.

Solution Overview

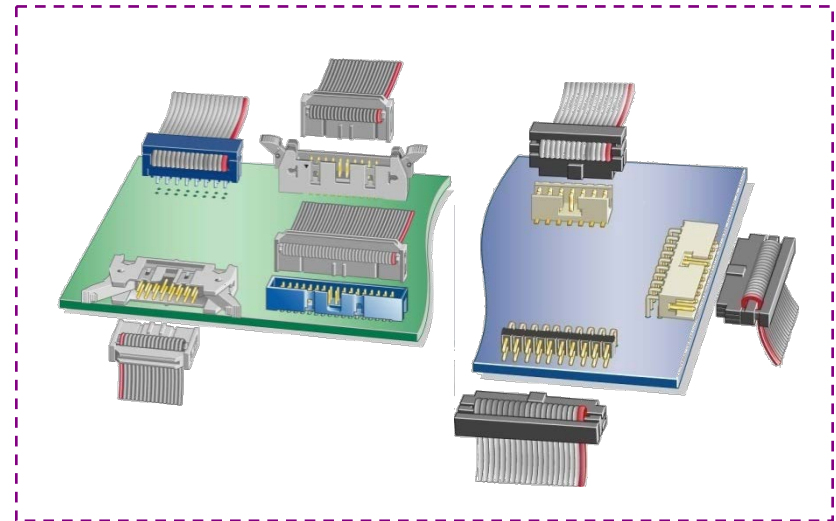
Board-to-board



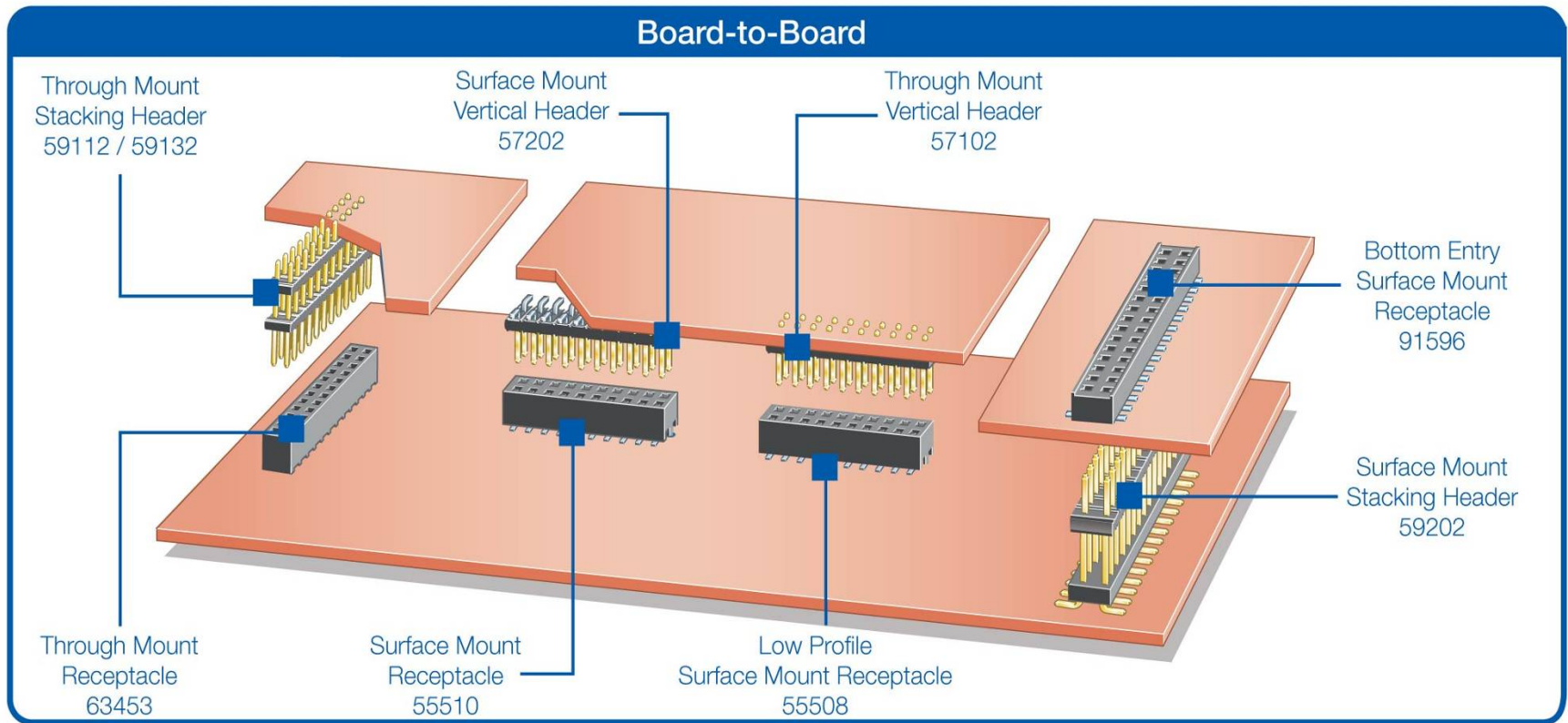
Wire-to-Board



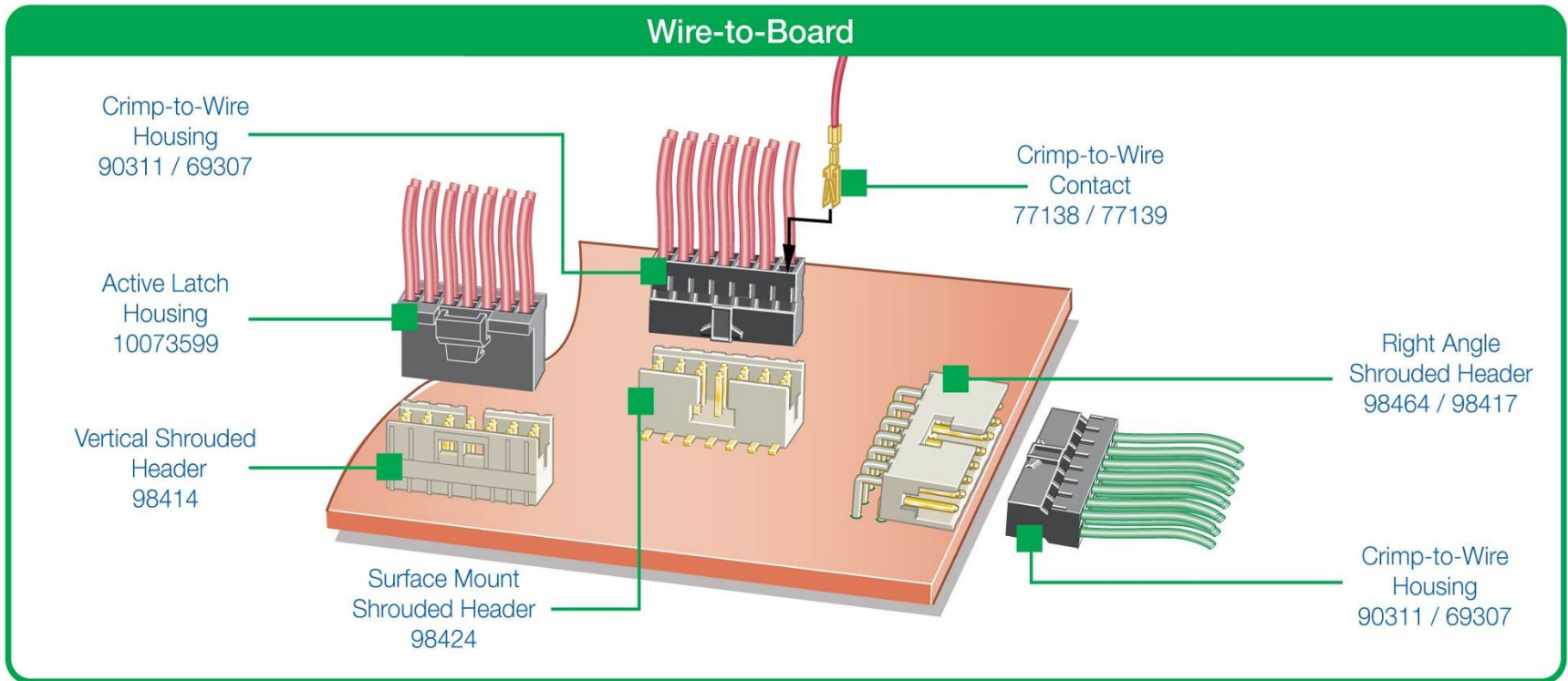
Cable-to-Board



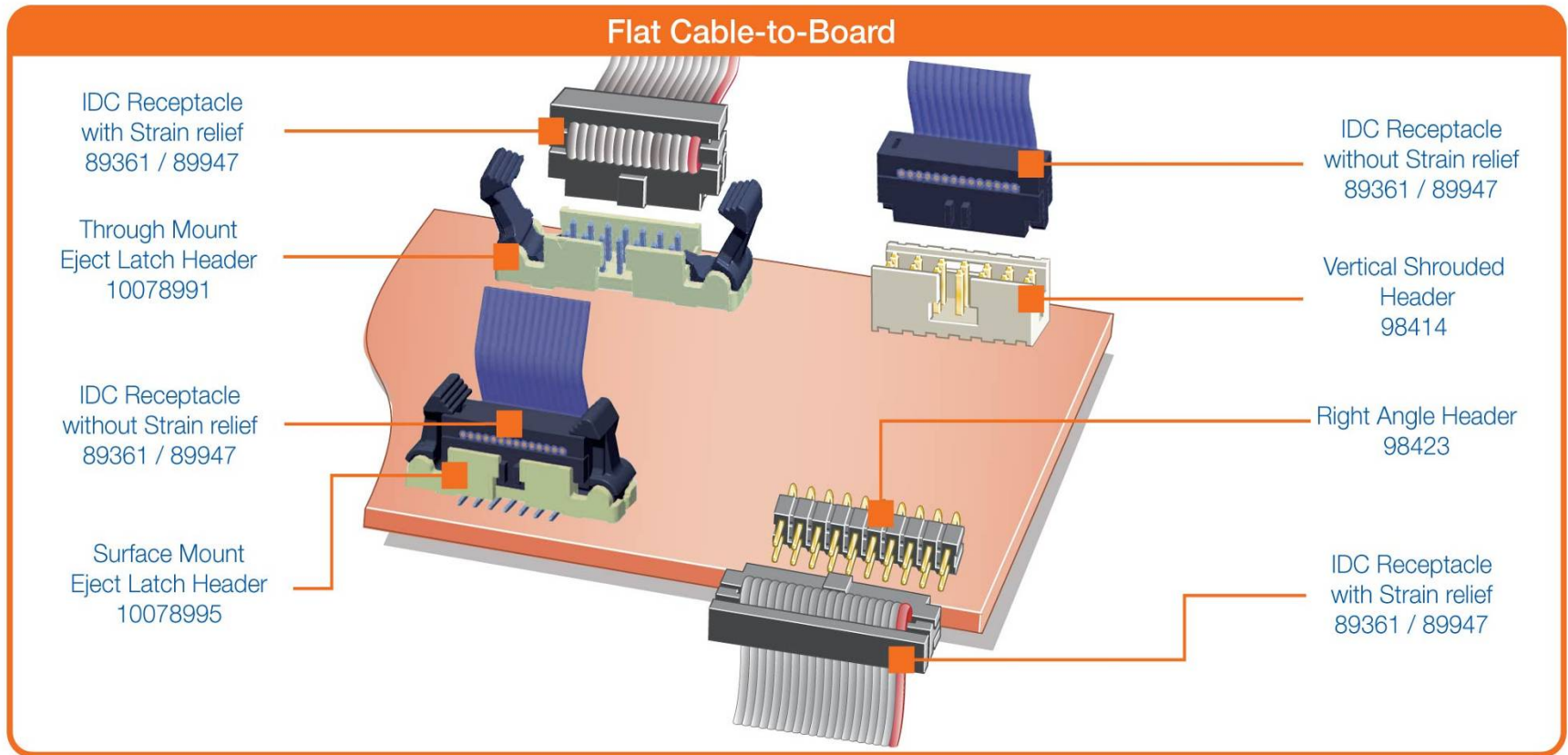
Solution Overview – BTB 2.00mm



Solution Overview – WTB 2.00mm



Solution Overview – Flat Cable to Board 2.00mm



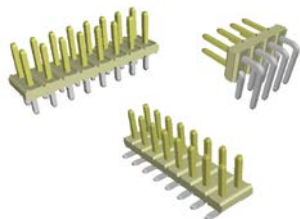
Solution Overview – Headers

The Minitek® product range includes PCB Card Connectors, Shrouded and Unshrouded headers and IDC/CTW receptacles. The connectors are available in surface mount, through hole, and in Pin in paste, double-row versions, in either straight or right angle orientation from 4 to 50 positions. The maximum current rating is 2A per contact.

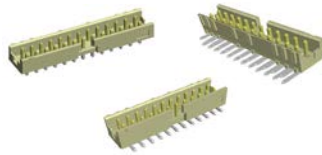
The Minitek® product range includes all the Headers:

- *Unshrouded and Shrouded*
- *Straight and Right Angle*
- *Through hole and SMT*
- *Normal profile and Stacking*

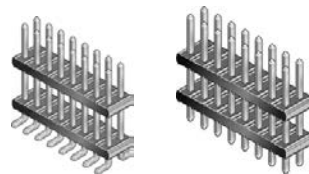
Unshrouded



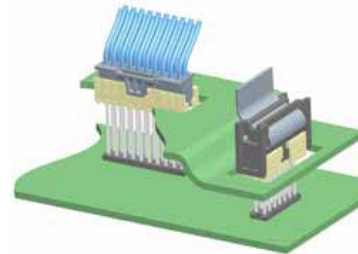
Shrouded



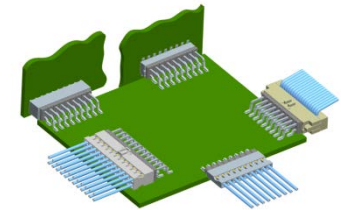
Stacking



TMT Shrouded Stacking



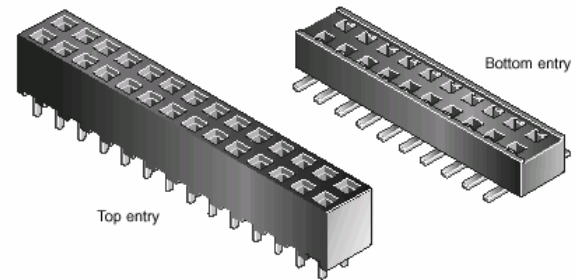
SMT horizontal Header



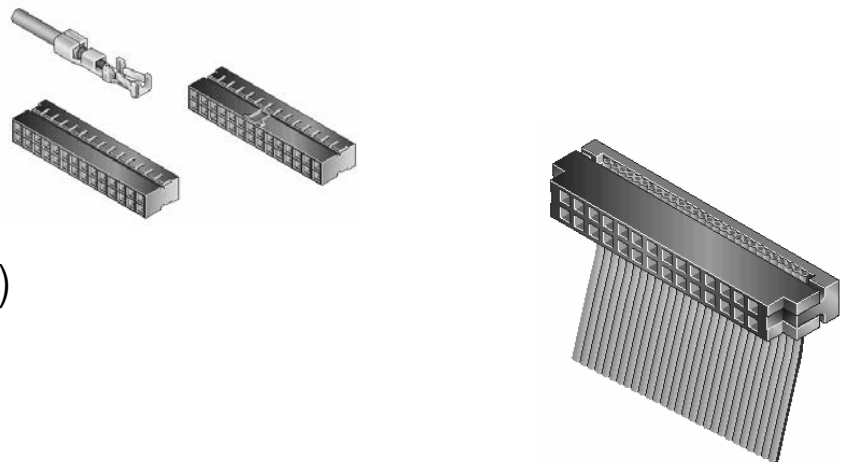
Solution Overview – Receptacles

The Minitek® product range includes all the Receptacles:

1. PCB mounted
 - *TMT, Top Entry, 4.5mm*
 - *SMT, Top Entry, 4.5mm*
 - *SMT, Top Entry, 2.3mm*
 - *SMT, Bottom Entry, 2.3mm*



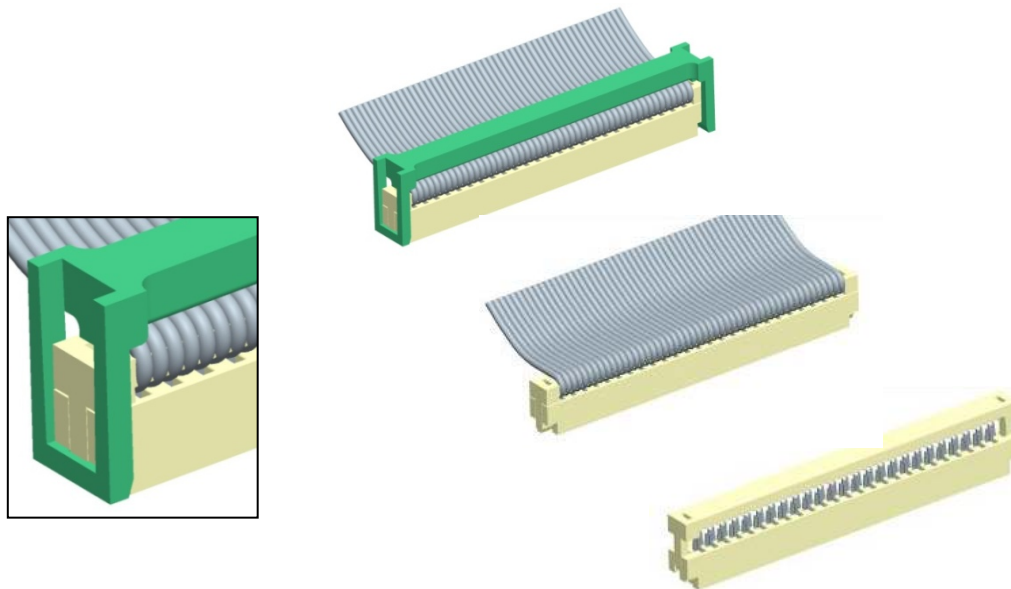
2. Crimp-to-wire
 - *With / without center key*
3. Insulation-Displacement (IDC)
 - *With / without strain relief*



Solution Overview – Strain Relief for IDC Receptacle

The strain relief for IDC Receptacle part of the Minitek® solution has/is:

- 15 versions: 2x3 to 2x25 positions
- No modification to IDC and cover needed (backwards compatible)
- Higher flat cable retention
- Less risk of destruction during extraction



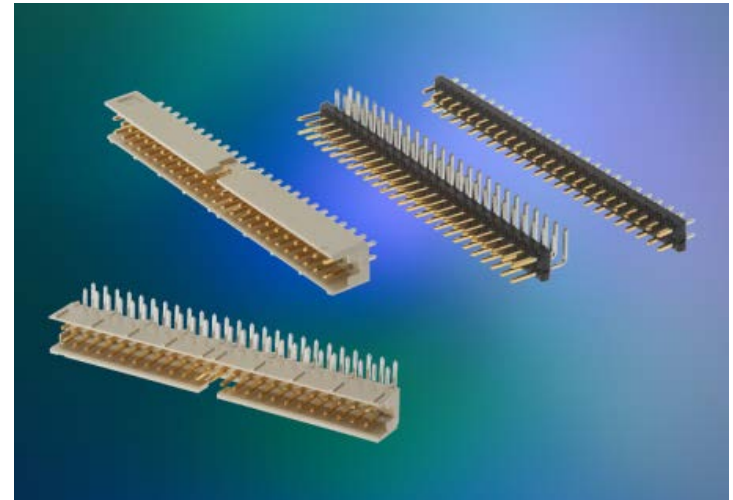
Solution Overview – Header Pin-in-Paste

Product range:

- Unshroud Vertical: 10075024
- Unshroud R/A: 10072353
- Shrouded Vertical: 10075025
- Shrouded R/A: 10072354
- Unshroud Stacking: 10075663

Application specifications:

- Vertical: TA-896
- R/A: TA-895



Product Specifications

Product Facts

Connectors with 2.00mm centerline
 Dual row 2 – 50 pos
 Straight header utilizes a 1.5mm low profile design
 High density design saves PCB spaces
 Standoffs for easy PCB cleaning.
 0.5mm square drawn wire pin provides smooth mating surfaces

Performance Characteristics

Current rating : up to 2A
 Insulation resistance : 1000 M ohm min
 Voltage rating 650V
 Durability 100 cycles
 OT° Range : -55° to 125°

Tool Information

Manual flat cable cutter : HT209
 Hand Press: QP-104

Hand Tool : RCY 21152 & RCY 21152

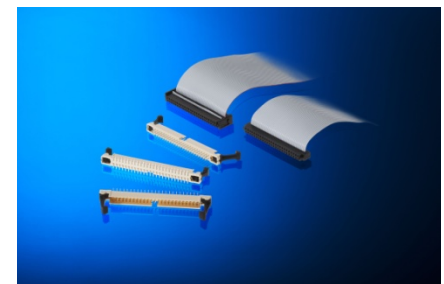
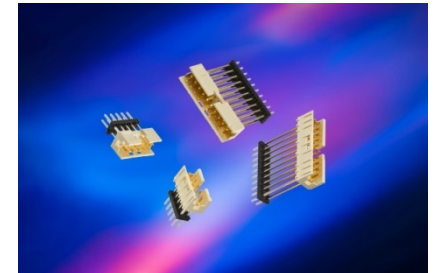
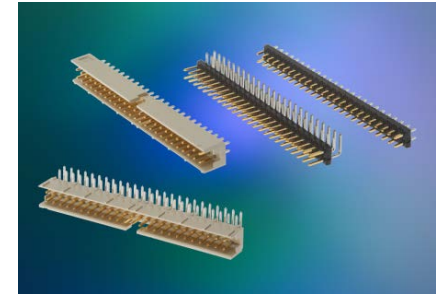
Specifications

- | | |
|---|-------------------------------|
| • Pitch | 2 mm |
| • Pin Count Dual row | 2 – 50 pos |
| • Mating direction Vertical & right angle | |
| • Current rate/contact | 2A max. |
| • Material (Cable Receptacle) | |
| • Housing | Thermoplastic UL94V-0 |
| • Terminal | Phosphor Bronze / Brass Alloy |
| • Material (header) | |
| • Housing | Thermoplastic UL94V-0 |
| • Terminal | Phosphor Bronze / Brass Alloy |

Technical Documents

Product spec : DPS-12-011
 GS-12-163
 BUS-12-115

Technical Applications : TA895
 TA959



Features & Benefits

Features	Benefits
Modular System	Everything intermateable
2.00mm pitch available	38% less board space compared with 2.54mm
Lowest Profile Eject Latch Header	Meets your specific design requirements
Lowest coplanarity at 0,1mm	Facilitates automatic placement
Standoffs designed	Make easy the cleaning of the PCB
0.5mm square drawn wire pin	Provides four smooth mating surface
High Raw Material temperature range	Withstands reflow soldering process

Main Markets & Applications

Industrial, Instrumentation & Medical



Communications market



Consumer market



Data market



Available on FCI.com:

- Technical Data Sheets

- Product Specifications



FCI	TYPE	PRODUCT SPECIFICATION	NUMBER	DPS-12-011
	TITLE	MINITEK II CONNECTORS		PAGE: 1 of 10 REVISION: H AUTHORIZED BY: KH LEE DATE: 6 OCT 2006
				CLASSIFICATION: UNRESTRICTED

1. SCOPE

Minitek II connector is a double rows, vertical card connector designed for used on 2.0mm center to center holes and available in vertical and right angle applications. This specification is intended to cover the performance and evaluation conditions of the connector.

2. MATERIAL & FINISH

2.1 Terminal

Material : Phosphor Bronze
 Finish : Overall 1.27 um Min Nickel underplate
 Solder tail - (a) 1.5-7.6 um Min Tin/Lead (85/15) plating
 (b) 2.54 um Min 100% matte tin
 Contact area - (a) 0.76 um Min Au
 (b) 0.38 um Min Au
 (c) 0.20 um Min Au

2.2 Housing

a) Material : Glass-filled PBT
 Color : Black
 Flammability : UL 94V-0
 b) Material : Glass-filled PCT
 Color : Beige/Black
 Flammability : UL 94V-0

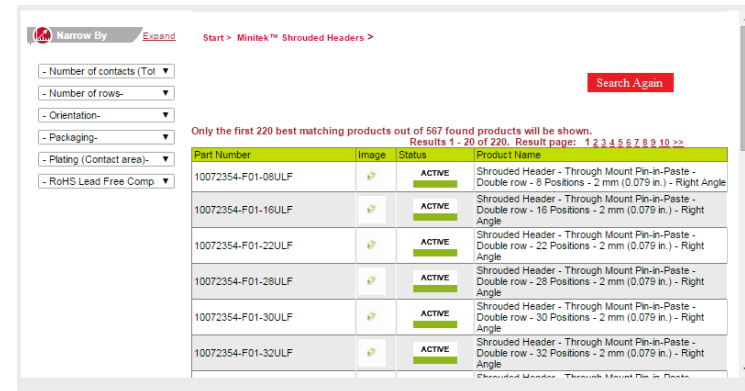
2.3 Header Pin

Marcomm Collaterals

Available on FCI.com:

- Part Numbers & Drawings







- 3D Views



Narrow By Expand Start > Minitek™ Shrouded Headers >

Search Again

Only the first 220 best matching products out of 567 found products will be shown. Results 1 - 20 of 220. Result page: 1 2 3 4 5 6 7 8 9 10 >>

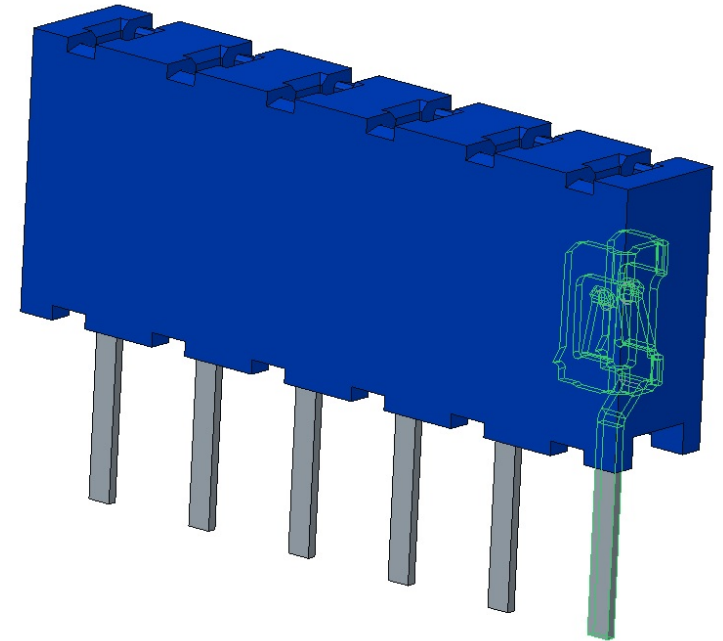
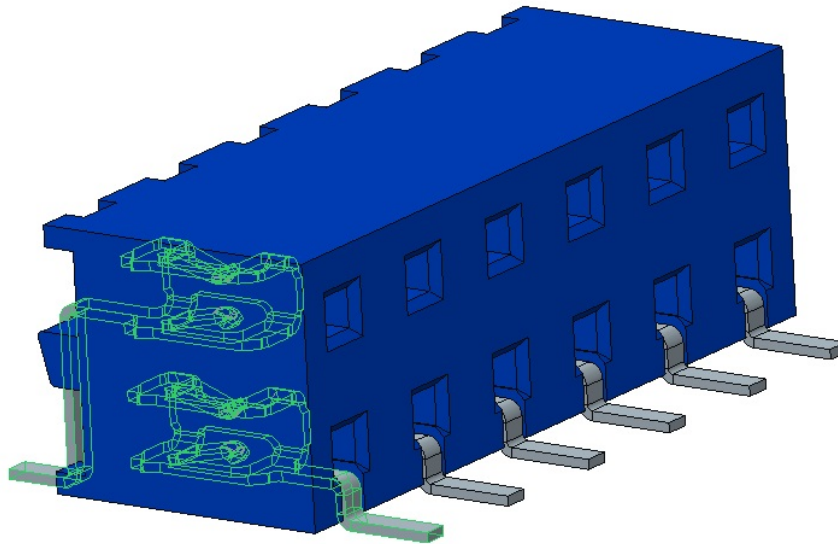
Part Number	Image	Status	Product Name
10072354-F01-08ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 8 Positions - 2 mm (0.079 in.) - Right Angle
10072354-F01-16ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 16 Positions - 2 mm (0.079 in.) - Right Angle
10072354-F01-22ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 22 Positions - 2 mm (0.079 in.) - Right Angle
10072354-F01-28ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 28 Positions - 2 mm (0.079 in.) - Right Angle
10072354-F01-30ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 30 Positions - 2 mm (0.079 in.) - Right Angle
10072354-F01-32ULF		ACTIVE	Shrouded Header - Through Mount Pin-in-Paste - Double row - 32 Positions - 2 mm (0.079 in.) - Right Angle



Coming soon!



VCC single row TMT and HCC double row SMT





THANK YOU

