# **≣FCi Basics**

## Amphenol ICC

# Minitek® 2.00mm Receptacle

## Single and double row

# MODULAR AND COMPACT SOLUTION

The Minitek<sup>®</sup> product family includes single and double row receptacles for Board-to-Board and Wire-to-Board applications, in 2 to 25 positions per row and in vertical and horizontal configurations.

- Selective plating option saves costs
- Double solder tail on each pitch for SR VCC ensures no orientation constraint
- 2Amps performance with more than one contact powered
- Horizontal configuration is ideal for coplanar applications
- Modular system ensures interchangeable solution for flexible design



#### **FEATURES**

- Double solder tail on each pitch for Single Row (SR) Vertical Card Connector (VCC)\*
- 2Amps with more than one contact powered
- Selective plating
- Low profile version available (2.3mm height)
- Modular system is fully intermateable
- Smaller pitch of 2.00mm
- Dual beam contact design
- Perpendicular or coplanar application
- High raw material temperature range

#### **BENEFITS**

- Facilitates automatic placement with no orientation constraint
- Meet higher power Amps performance requirements
- Cost efficient
- Meets specific design requirements
- Interchangeable solution offers design flexibility
- 38% less board space compared with 2.54mm connectors
- Highly reliable electrical performances
- Vertical or horizontal mounting solution
- Withstands reflow soldering process

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## **TECHNICAL INFORMATION**

#### MATERIAL

- Housing: High Temperature Thermoplastic, Black, UL94V-0
- Pin: Phosphor Bronze
- Plating:
- 1= 0.76μm Gold/GXT<sup>®</sup> on contact area and 2μm min. matte Tin on tail
- 2= 0.38μm Gold/GXT<sup>®</sup> on contact area and 2μm min. matte Tin on tail
- 3= 0.20μm Gold/GXT<sup>®</sup> on contact area and 2μm min. matte Tin on tail
- 9= 1.27μm Nickel min. under layer and 2μm matte Tin on tail

#### **MECHANICAL PERFORMANCE**

- Durability: 100 mating cycles

#### **ELECTRICAL PERFORMANCE**

- Dielectric Withstanding Voltage: 650V
- Insulation Resistance: 1000M $\Omega$  min.
- Current Rating: 2A (all contacts powered)

#### PACKAGING

- Tube
- Tape

#### **APPROVALS & CERTIFICATION**

UL94 V-0 & CSA

#### **SPECIFICATION**

• Amphenol Product Specification: GS-12-1326

#### **ENVIRONMENTAL**

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

#### **TARGET MARKETS/APPLICATIONS**



Automotive



Input/Output Module Server Drive Programmable Logic Controller (PLC)

#### Disclaimer

Please note that the above information is subject to change without notice.

## **PART NUMBER SELECTOR – SINGLE ROW**

XXXXXXXX		Х		ХХ			Х		хх			
BASE PART NUMBER		PLATING CODE		-	TOTAL POSITIONS		PACKAGING OPTION		LEAD-FREE		LF	]
							Tube (st	tanda	rd packaş	ging)		U
							Tape an	id ree	l for SMT	& as av	/ailable	A
Cingle Dave		L					2 positi	ons	02	14 po	sitions	14
Single Row						3 positions		03	15 positions		15	
Vertical, SMT		10131935					4 positions		04	16 positions		16
Vertical, THT		10131934					5 positions		05	17 positions		17
Horizontal, SMT		1013193	31				6 positi	ons	06	18 po	sitions	18
Horizontal, THT		1013193	30				7 positi	ons	07	19 po	sitions	19
0.76µm Gold/GXT® on contact area;					1		8 positions		08	20 positions		20
	2μm min. matte Tin on tail.						9 positions		09	21 positions		21
0.38μm Gold/GXT® on contact area; 2μm min. matte Tin on tail					2		10 positions		10	22 positions		22
0.20µm Gold/GXT® on contact area;					3		11 positions		11	23 positions		23
	2μm min. matte Tin on tail						12 posit	ions	12	24 po	sitions	24
1.27μm Nickel min. under layer; 2μm matte Tin on tail							13 positions 13			25 po	25	

## **PART NUMBER SELECTOR – DOUBLE ROW**



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