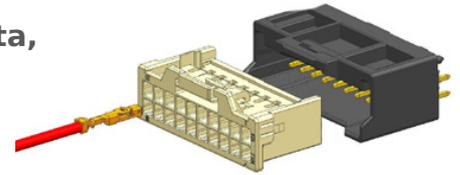# iGrid 2.00mm Dual-Row Wire-to-Board Connectors with Positive Lock *(Gold-terminal series)*

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Available in gold-plated terminals, iGrid 2.0 connectors support higher electrical conductivity for a variety of data, industrial and consumer wire-to-board applications.
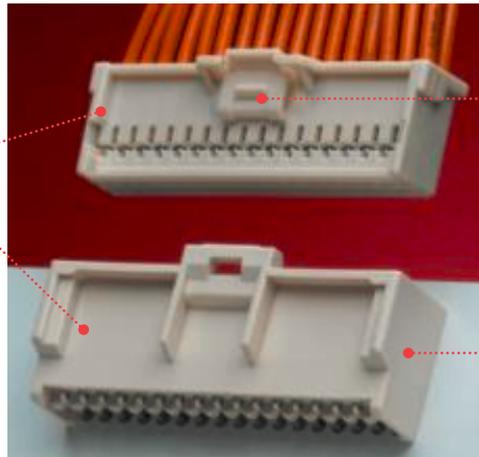
Features and Benefits

iGrid 2.00mm Pitch Wire-to-Board Connectors with Gold-plated Terminals

10-color polarization options
Prevent any chance of connector mismatch or mis-mating

Internal positive lock
Prevents wire-snagging beneath the latch; gives an audible 'click' when fully secured and enables easy unmating

High header housing wall
Offers terminal protection and mating guidance

Applications

Telecommunications / Networking

Hubs

Servers

Routers

Consumer

Gaming Machine

Vending Machine

Home Appliance

Refrigerators

Washing Machine

Industrial

Security Systems

Non-Automotive

GPS System

Consumer and Home Appliances

Security Systems

Networking Systems

iGrid 2.00mm Dual-Row Wire-to-Board Connectors with Positive Lock *(Gold-terminal series)*

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Specifications

REFERENCE INFORMATION
Packaging: Tray (Header)
    Bag (Crimp Receptacle)
Mates With: 503091 with 501646 housing (Gold)
    501645 with 501646 housing (Tin)
    501876 with 501646 housing (Tin)
Use With: 501646 housing with 503095 terminals (Gold)
    501646 housing with 501647 /
    501648 terminals (Tin)
Terminal Used: Copper Alloy (Terminal)
    Brass (Pin)
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: No

ELECTRICAL
Voltage (max.): 250V AC
Current (max.): 2.0A
Low Level Contact Resistance: 20 milliohms
Insulation Resistance: 1000 Megohms min.

MECHANICAL
Contact Insertion Force (max.): 9.8N
Contact Retention to Housing: 9.8N
Durability (min.):   30 cycles

PHYSICAL
Housing: Nylon 66, UL94V-0
Contact (Pin): Brass
Contact (Terminal): Copper Alloy

Plating	Tin	Gold
Contact Area	Tin	Gold Flash
Solder Tail Area	Tim	Gold Flash
Underplating	Nickel	Nickel

Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Component	Plating	AWG	Part Number (where XX refer to circuit sizes 10 to 40) Y – Color Option (refer to Sales Drawing) for list of colors
503091	Vertical Header	Gold Flash	-	503091-XX21
503095	Crimp Terminal	Gold Flash	26-28	503095-1200
501645	Vertical Header	Tin	-	501645-XX2Y
501876	Right Angle Header	Tin	-	501876-XX4Y
501647	Crimp Terminal	Tin	22-26	501647-1000
501648	Crimp Terminal	Tin	26-28	501648-1000
501646	Crimp Housing	-		501646-XX00

www.molex.com/link/igrid.html