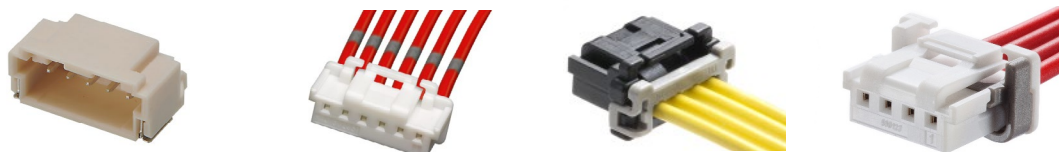


DuraClik 2.00mm Wire-to-Board Connector System >

DuraClik 2.00mm-Pitch Wire-to-Board SMT Connectors provide superior electrical contact reliability, space savings and high PCB retention force capability. These connectors are designed to improve connection security and performance in challenging environments subject to high vibration and high temperatures.



DuraClik Feature	Header	Standard Receptacle	TPA Receptacle	ISL Receptacle
Termination	Surface mount	Crimp	Crimp	Crimp
Size (Depth)	8.00mm (vertical) 9.40mm (right angle)	6.50mm	7.45mm	8.50mm
Current	3.0A	3.0A	3.0A	3.0A
Temperature Rating	-40 to +125°C	-40 to +105°C	-40 to +125°C	-40 to +130°C
Retention Force	-	9.8N	20N	50N
Retainer	-	-	Y	Y
Available Circuit Sizes	2 to 15	2 to 15	2 to 15	2 to 10, 12, 13, 15
Plating	Tin, Gold	Tin, Gold	Tin, Gold	Tin, Gold

ADVANTAGES AND FEATURES

Ensures secure connector-to-PCB header retention

Robust secondary lock variants can withstand an upward pull force of 100N (10kgf) to meet automotive vibration requirements.

Confirms correct and secure mating: durability + click (sound) = DuraClik

An audible click sound on mating and built-in inertia lock available in versions up to 15 circuits help ensure a reliable connection.

Offers greater design flexibility

Different header options of 2 to 15 circuits—in vertical and horizontal configurations—are available.

Provides secure mating and space savings; prevents latch breakage from wire tangling

An inner positive lock prevents unintended disconnection.

Delivers automotive-grade robustness

The ISL receptacle conforms to LV214 (S2 vibration), ES91500-03 and SAE/USCAR-21 standards.

Permits use in high-level automotive passenger compartment applications

DuraClik's operating temperature range of -40 to +130°C ensures reliability in challenging conditions.

DuraClik 2.00mm Wire-to-Board Connector System >

APPLICATIONS

Automotive

Headlights
Rear combination lamps
Steering switches
Gearshifts
Meter systems
Door modules
Navigation systems
Rearview mirrors
Seat adjusters
Sensors

Electric Vehicle

Battery management systems
Inverter fastener components
Vehicle connectivity
Telematics modules
Head-up displays
DC-DC converters
Onboard chargers
Power distribution units

Commercial Vehicle

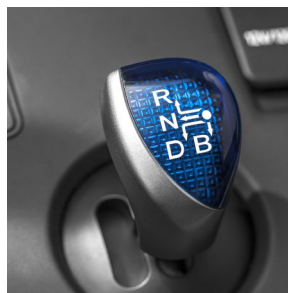
Tractors
Cranes
Industrial machinery

Consumer

White goods
LED lighting
Induction cooking heaters
Vending/gaming machines
Energy storage systems



LED Lighting



Gearshifts



White Goods



Battery Management Systems



Inverters



Induction Cooktops

SPECIFICATIONS

REFERENCE INFORMATION

Packaging:
Header — Embossed tape and reel
Housing, Retainer — Bag
Terminal — Reel
Designed In: Millimeters
RoHS: Yes
Low Halogen: Yes

ELECTRICAL

Voltage (max.): 125V
Current (max.): 3.0A
Contact Resistance (max.): 10 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Retention to Housing:
Standard Version — 9.8N
TPA Version — 20N
ISL Version — 50N
Robust Version — 100N

PHYSICAL

Housing: Standard, ISL and Robust: PBT, TPA: PA
Retainer: PBT
Header Housing: Polyamide
Header Terminal: Copper Alloy
Terminal Contact: Phosphor Bronze
Plating:
Contact Area — Tin or Gold
Solder Tail Area — Tin
Underplating — Nickel
Operating Temperature:
-40 to +105°C (Standard)
-40 to +125°C (TPA, Robust)
-40 to +130°C (ISL)

DuraClik 2.00mm Wire-to-Board Connector System

ORDERING INFORMATION

DuraClik Connectors

Version	Circuits	Housing	Retainer	Terminal		
				Series	Plating	Wire Gauge
Standard	2 to 15	502351 (natural or black)	-	50212	Tin	30 to 26 AWG
				560085	Tin	26 to 22 AWG
				56161	Gold	26 to 22 AWG
TPA	2 to 15	505151 (black or white)	505152 (gray)	505153	Tin	24 and 22 AWG
				505487	Gold	24 and 22 AWG
ISL	2 to 15	560123 (white, black, red, blue)	560125 (gray, black)	560124	Tin or Gold	AVSS 0.30mm ² FLRY-A 0.35mm ² Mocar150C 0.35mm ² 0.22mm ²

DuraClik Headers

Version	Circuits	Header Direction	Plating	Color
Standard	2 to 15	502352 (right angle)	Tin	Natural, black, red or blue
			Gold	Natural
		560020 (vertical)	Tin	Natural, black, red or blue
			Gold	Natural