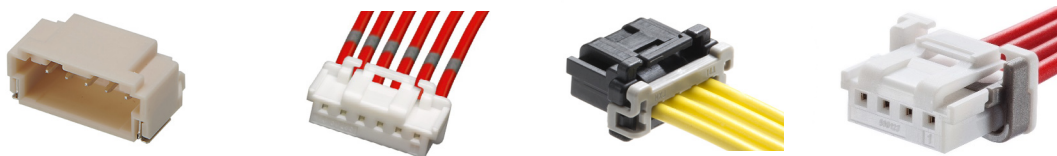


DuraClik 2.00mm Wire-to-Board Connector System >

Molex's 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 developed for high-vibration and high-temperature applications.



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 +125°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
Plating	Tin, Gold	Tin, Gold	Tin, Gold	Tin, Gold

FEATURES AND ADVANTAGES

Provides protection against foreign objects, lock deformation and unlocking due to external factors
Lock guard

Provides mating confirmation
Durability + Click (sound) = DuraClik
Audible click sound on mating

Offer greater design flexibility
Different header circuit options in vertical and horizontal configurations

Helps prevent half mating and ensures secure mating
Inertia lock

Provides secure mating and space savings; helps prevent latch breakage from wire tangling
Inner positive lock

Provides automotive-grade robustness
ISL receptacle is LV214 (S2 vibration), ES91500-03 and SAE/USCAR-21

Provide secure PCB retention that can withstand an upward pull force of 100N (10kgf) to meet automotive vibration requirements
Wide solder tabs for the header; designed to SAE automotive vibration standards

Protects contact against dust and debris; avoids tangling during harness assembly
Enclosed contact design

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

EV

Battery management systems (BMSs)
Inverter fastener components
Vehicle Connectivity
Telematics modules
Head-up displays

Commercial Vehicle

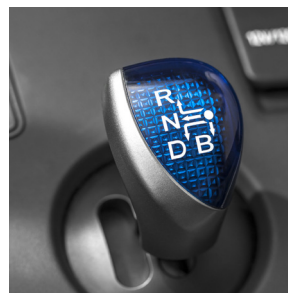
Tractors
Cranes
Industrial machinery

Consumer

White goods
LED lighting
IH cooking heaters
Vending/gaming machines



LED Lighting



Gearshift



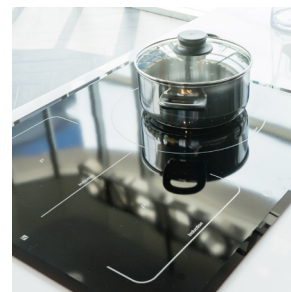
White Goods



Battery Management System



Inverters



Induction Cooktop

SPECIFICATIONS

REFERENCE INFORMATION

Packaging:
Header – Embossed tape
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 (ISL and TPA)
-40 to +125°C (Robust Series)

DuraClik 2.00mm Wire-to-Board Connector System

ORDERING INFORMATION

DuraClik Standard

Housing Natural	Housing, Black	Terminal	Circuit
<u>502351</u>	<u>502351</u>	<u>50212</u> Tin Plating 26 to 30 AWG	2 to 15
		<u>560085</u> Tin Plating 22 to 26 AWG	
		<u>56161</u> Gold Plating 22 to 26 AWG	

DuraClik TPA

Retainer, Gray	Housing, Black	Housing, White	Terminal	Circuits
<u>505152</u>	<u>505151</u>	<u>505151</u>	<u>505153</u> Tin Plating 22, 24 AWG	2 to 15
			<u>505487</u> Gold Plating 22, 24 AWG	

DuraClik ISL and DuraClik Robust

Retainer, Gray	Retainer, Black	Housing, White	Housing, Black	Housing, Red	Housing, Blue	Terminal	Circuit
<u>560125</u>	<u>560125</u>	<u>560123</u>	<u>560123</u>	<u>560123</u>	<u>560123</u>	<u>560124</u> Tin Plating AVSS 0.30mm ² FLRY-A 0.35mm ² Mocar150C 0.35mm ²	2 to 10, 12
						<u>560124</u> Gold Plating AVSS 0.30mm ² FLRY-A 0.35mm ² Mocar150C 0.35mm ²	
						<u>560124</u> 0.22mm ²	

DuraClik Headers

Series	Header Direction	Circuits	Natural, Tin	Black, Tin	Red, Tin	Blue, Tin	Natural, Gold
<u>502352</u>	Right Angle	2 to 15	✓	✓	✓	✓	✓
<u>560020</u>	Vertical	2 to 15	✓	✓	✓	✓	✓

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