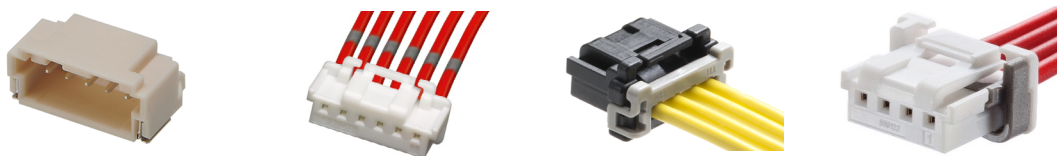


DuraClik 2.00mm Wire-to-Board Connector System >

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

Lock guard

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

Audible click sound on mating

Provides mating confirmation
Durability + Click (sound) = DuraClik

Different header circuit options in vertical and horizontal configurations

Offer greater design flexibility

Inertia lock

Helps prevent half mating and ensures secure mating

Inner positive lock

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

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

Provides automotive-grade robustness

Wide solder tabs for the header; designed to SAE automotive vibration standards

Provide secure PCB retention that can withstand an upward pull force of 100N (10kgf) to meet automotive vibration requirements

Enclosed contact design

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

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



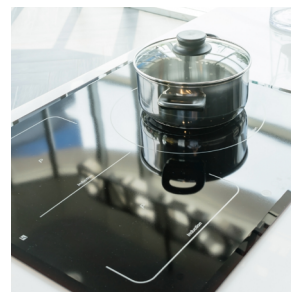
White Goods



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
502351-0200	502351-0201	50212-8000 Tin Plating 26 to 30 AWG	2
502351-0300	502351-0301		3
502351-0400	502351-0401		4
502351-0500	502351-0501		5
502351-0600	502351-0601		6
502351-0700	502351-0701	560085-0101 Tin Plating 22 to 26 AWG	7
502351-0800	502351-0801		8
502351-0900	502351-0901		9
502351-1000	502351-1001	56161-8081 Gold Plating 22 to 26 AWG	10
502351-1100	502351-1101		11
502351-1200	502351-1201		12
502351-1300	502351-1301		13
502351-1400	502351-1401		14
502351-1500	502351-1501		15

DuraClik TPA

Retainer, Gray	Housing, Black	Housing, White	Terminal	Circuit
505152-0200	505151-0200	505151-0201	505153-8000 Tin Plating 22, 24 AWG	2
505152-0300	505151-0300	505151-0301		3
505152-0400	505151-0400	505151-0401		4
505152-0500	505151-0500	505151-0501		5
505152-0600	505151-0600	505151-0601		6
505152-0700	505151-0700	505151-0701	505487-8000 Gold Plating 22, 24 AWG	7
505152-0800	505151-0800	505151-0801		8
505152-0900	505151-0900	505151-0901		9
505152-1000	505151-1000	505151-1001		10
505152-1100	505151-1100	505151-1101		11
505152-1200	505151-1200	505151-1201		12
505152-1300	505151-1300	505151-1301		13
505152-1400	505151-1400	505151-1401		14
505152-1500	505151-1500	505151-1501		15

DuraClik ISL and DuraClik Robust

Retainer, Gray	Retainer, Black	Housing, White	Housing, Black	Housing, Red	Housing, Blue	Terminal	Circuit
560125-0200		560123-0200	560123-0201	560123-0202	560123-0204	560124-0101 Tin plating AVSS 0.3mm ² FLRY-A 0.35mm ² Mocar150C 0.35mm ²	2
560125-0300	560125-0301	560123-0300	560123-0301	560123-0302	560123-0304		3
560125-0400		560123-0400	560123-0401	560123-0402	560123-0404		4
560125-0500		560123-0500	560123-0501				5
560125-0600	560125-0601	560123-0600	560123-0601	560123-0602	560123-0604		6
560125-0700		560123-0700	560123-0701			560124-0131 Gold plating AVSS 0.3mm ² FLRY-A 0.35mm ² Mocar150C 0.35mm ²	7
560125-0800		560123-0800	560123-0801	560123-0802	560123-0804		8
560125-0900		560123-0900	560123-0901				9
560125-1000		560123-1000	560123-1001				10
560125-1200		560123-1200	560123-1201			560124-0201 0.22mm ²	12
			206583-0161			503116-0102 Tin plating AVSS 0.3mm ² AVSS 0.5mm ²	16
			206583-0241				24

DuraClik 2.00mm Wire-to-Board Connector System

ORDERING INFORMATION

DuraClik Headers

Right Angle Header					Circuit
Natural, Tin	Black, Tin	Red, Tin	Blue, Tin	Natural, Gold	
502352-0200	502352-0201	502352-0202	502352-0203	502352-0210	2
502352-0300	502352-0301	502352-0302	502352-0303	502352-0310	3
502352-0400	502352-0401	502352-0402	502352-0403	502352-0410	4
502352-0500	502352-0501			502352-0510	5
502352-0600	502352-0601	502352-0602	502352-0603	502352-0610	6
502352-0700	502352-0701			502352-0710	7
502352-0800	502352-0801	502352-0802	502352-0803	502352-0810	8
502352-0900	502352-0901			502352-0910	9
502352-1000	502352-1001			502352-1010	10
502352-1100	502352-1101			502352-1110	11
502352-1200	502352-1201			502352-1210	12
502352-1300	502352-1301			502352-1310	13
502352-1400	502352-1401			502352-1410	14
502352-1500	502352-1501			502352-1510	15
206584-0161					16
206584-0241					24

DuraClik Headers

Vertical Header					Circuit
Natural, Tin	Black, Tin	Red, Tin	Blue, Tin	Natural, Gold	
560020-0220	560020-0221	560020-0222	560020-0223	560020-0230	2
560020-0320	560020-0321	560020-0322	560020-0323	560020-0330	3
560020-0420	560020-0421	560020-0422	560020-0423	560020-0430	4
560020-0520				560020-0530	5
560020-0620	560020-0621	560020-0622	560020-0623	560020-0630	6
560020-0720				560020-0730	7
560020-0820	560020-0821	560020-0822	560020-0823	560020-0830	8
560020-0920				560020-0930	9
560020-1020				560020-1030	10
560020-1120				560020-1130	11
560020-1220				560020-1230	12
560020-1320				560020-1330	13
560020-1420				560020-1430	14
560020-1520				560020-1530	15

www.molex.com/link/duraclik.html