



Wire-to-Board Connectors

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Series	ISH			
Appearance		 P		
Feature	Miniaturized 125°C resistance horizontal mating connector	Miniaturized 125°C resistance Horizontal mating connector with hybrid (signal + power) terminals	Miniaturized 125°C resistance vertical mating connector	Miniaturized 125°C resistance wire-to-wire connector
Mating Type	Horizontal	Horizontal	Vertical	Wire to Wire
Available Pin Count	3 (1 row) 6, 8, 12, 16, 20, 32 (2 rows)	20, 28 (2 rows) Signal 18,26 /+ Power 2	10, 20, 26 (2 rows)	3 (1 row) 8 (2 rows)
Pitch	2.0 mm	Signal : 2.0 mm Power : 3.8 mm	2.0 mm	2.0 mm
Pin Size	0.50 x 0.40 mm (020)	Signal : 0.50 x 0.40 mm (020) Power : 1.50 x 0.64 mm (060)	0.50 x 0.40 mm (020)	0.50 x 0.40 mm (020)
Mating Height	7.50 mm (1 row) 12.20 mm (2 rows)	13.60 mm	20.75 mm	8.00 mm (1 row) 11.70 mm (2 rows)
Current Rating	4.5 A/pin	Signal : 4.5 A/pin Power : 7 A/pin	4.5 A/pin	4.5 A/pin
Reference applicable cable (Discrete Cable)	AWG 20, 22	AWG 20, 22 (Power: 20AWG only adaptable)	AWG 20, 22	AWG 20, 22
Operating Temperature	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +125°C
Vibration Resistance	10 G	10 G	10 G	10 G
Terminal Plating	Sn, Au(*1)	Sn	Sn	Sn
Automotive Standards	USCAR-2 (*2) LV214 (*3)	USCAR-2 (*4)	LV214	LV214 (*5)

Note (*1) Sn and Au plating available for 3P.

(*2) : 12pin complied. 8 pin complied, except for connector retention force specification. (*3) : 12 pin and 16 pin complied.(one of multiple part number) (*4) : 20 pin complied, except for retention force of male power terminals. (need to add rear cover option) (*5) : 8 pin complied



Wire-to-Board Connectors

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Series	IARPB	
Appearance		
Feature	Miniaturized board-in connector	Miniaturized board-in vertical type connector
Mating Type	Through-Hole DIP, Board-in-Horizontal	Through-Hole DIP, Vertical
Available Pin Count	2, 3, 4, 5, 6	2, 3, 4, 5, 6, 7, 8, 9, 10
Pitch	2.5 mm	2.5 mm
Pin Size	Φ 0.7	Φ 0.7
Mating Height	4 mm max.	8.4 mm max.
Current Rating	3.0 A/pin	3.0 A/pin
Reference applicable cable (Discrete Cable)	AWG 22	AWG 22
Operating Temperature	-40 to 125°C	-40 to 125°C
Vibration Resistance	10 G	6 G
Plating	Sn	Sn
Automotive Standards	-	-

Power Terminals

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Series		AP-10		AP-TSS10 / AP-LT10	
Appearance					
Feature		High current (30 A), High temperature (105°C) resistance, board-to-board power supply terminal		High current (32 A), high temperature (125°C) Spacer/Power Terminal, PCB SMT Terminal, easily operates with SMT and M3 (8.00 mm) screws	
Mating Type		Vertical		Vertical (M3 thread screw)	
Size	Height	Receptacle	11.70 +/- 0.20 mm	8.00 +/- 0.10 (AP-TSS10) 1.00 +/- 0.10 (AP-LT10)	
		Plug	7.50 +/- 0.10 mm (3531-0001-00T) 14.50 +/- 0.10 mm (3539-0001-45T)		
	Width	Receptacle	7.60 +/- 0.20 mm	Φ 7.00 +/- 0.10 (AP-TSS10) Φ 8.20 +/- 0.10 (APLT-10)	
		Plug	3.4 +/- 0.20 mm (3531-0001-00T) 5.2 +/- 0.20 mm (3539-0001-45T)		
	Depth	Receptacle	3.40 +/- 0.20 mm		
		Plug	6.0 +/- 0.10 mm (3531-0001-00T) 7.6 +/- 0.10 mm (3539-0001-45T)		
Plating Type		Sn/Ni plating		Sn/Ni plating	
Rating Amperage		30 A DC		32 A DC	
Operating Temperature		233 to 378 (-40 to +105°C)		233 to 398 (-40 to +125°C)	
Contact Resistance		1.0 mΩ max.		1.0 mΩ max.	
Operating Humidity		85% max. (Non-Condensing)		85% max. (Non-Condensing)	
Durability		3 cycles		-	

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