



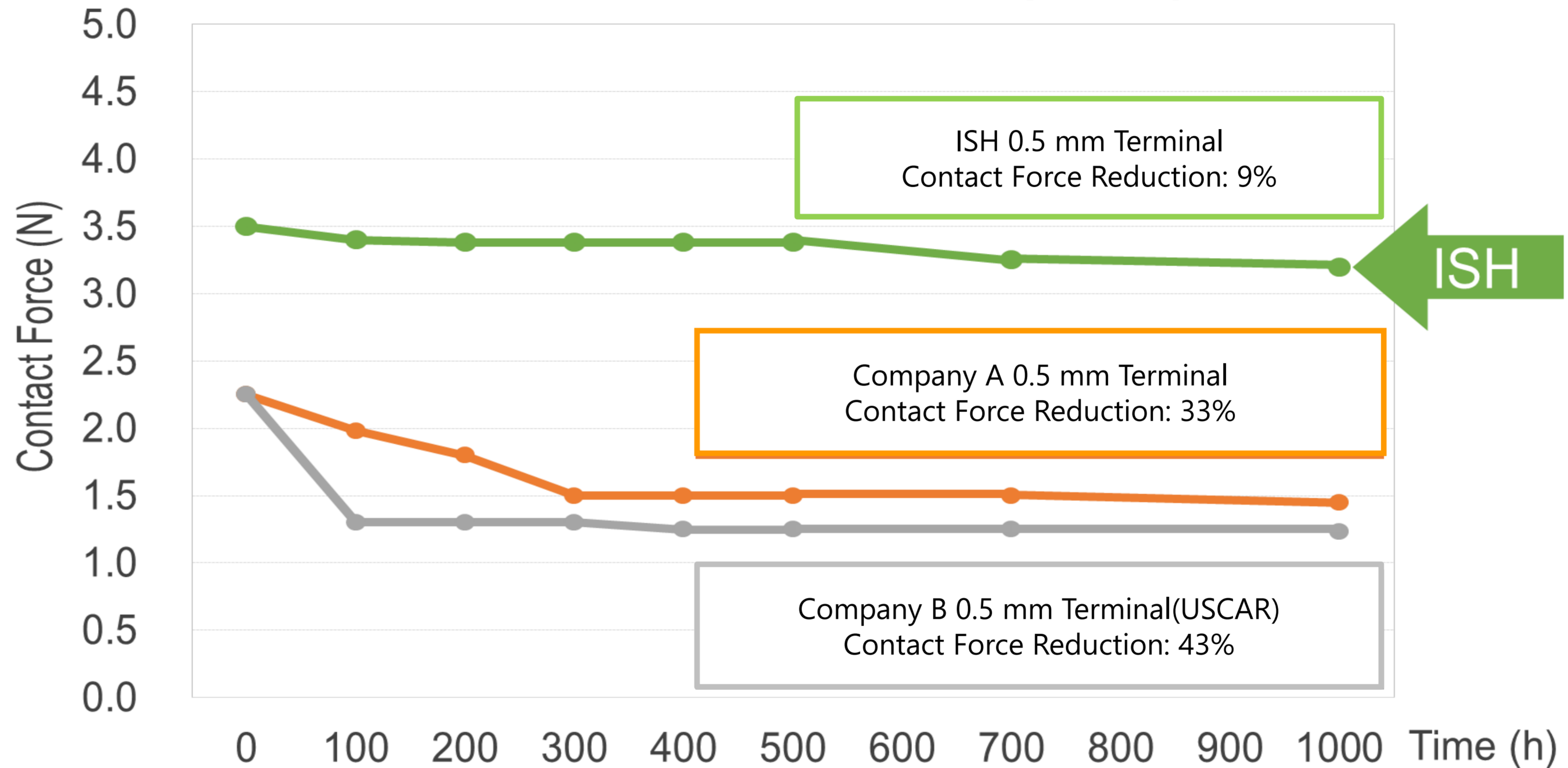
High-Power Wire-to-Board Connectors (ISH/ISHV/IARPB)

Click the photos below to get more detailed product information. (except ISHV Horizontal & Vertical type)

Series	ISH				ISHV			IARPB
Mating Type	Horizontal		Vertical	Wire to Wire	Horizontal		Vertical	Through-Hole DIP
Feature		 P Power pin						
	Miniaturized 125°C resistance horizontal mating connector	Dedicated Power Pin	Miniaturized 125°C resistance vertical mating connector	Miniaturized 125°C resistance wire-to-wire connector	Miniaturized 125°C resistance LV214 compatible connector	CPA option (Connector Position Assurance)	Miniaturized 125°C resistance LV214 compatible connector	Miniaturized board-in connector
Available Pin Count	3 (1 row) 6/8/12/16/20/32 (2 rows)	20 (2 rows/Signal 18+Power 2)	10/20/26 (2 rows)	3 (1 row) 8 (2 rows)	12/16 (2 rows)	8 (2 rows)	8 (2 rows)	2/3/4/5/6 (1 row)
Pitch	2.0 mm	Signal : 2.0 mm Power : 3.8 mm	2.0 mm					2.5 mm
Pin Size	0.50 mm * 0.40 mm (020)	Signal : 0.50 mm * 0.40 mm (020) Power : 1.50 mm * 0.64 mm (060)	0.50 mm * 0.40 mm (020)					Φ 0.7
Compliant Specification	Several OEM specs	Several OEM specs	LV214	Several OEM specs	LV214	LV214	LV214	Several OEM specs
Mating Height	7.4 mm (1 row) 10.9 mm (2 rows)	13.60 mm	20.75 mm	8.00 mm (1 row) 11.7 mm (2 rows)	10.90 mm (2 rows)	11.40 mm (2 rows)	19.95 mm	3,30 mm
Current Rating	4.5A per pin	Signal 4.5A per pin Power 10A per pin	4.5A per pin					3A per pin
Operating Temperature	-40 - 125°C							-40 - 105°C
Vibration Resistance								10G
Plating								Sn

High-Power Wire-to-Board Connectors (ISH/ISHV)

Stress Relaxation (125°C)



High-Power Supply Terminals for Custom Connectors

Series	ISFIT							
Type	Wire to Board					Board to Board		
Feature								
	Wire to Board type press fit terminal					Board to Board type press fit terminal		
Terminal Size(mm)	0.50 (Thickness : 0.40)	0.64 (Thickness : 0.25)	1.20 (Thickness : 0.30)	2.80 (Thickness : 0.30)	9.50 (Thickness : 0.64)	- (Thickness : 0.30)		
Through-hole Diameter(mm)	$\Phi 1.20 \pm 0.05$	$\Phi 1.20 \pm 0.05$	$\Phi 1.20 \pm 0.05$	$\Phi 1.60 \pm 0.05$	$\Phi 1.50 \pm 0.05$	$\Phi 1.00 \pm 0.05$	$\Phi 1.20 \pm 0.05$	$\Phi 1.60 \pm 0.05$
PCB Material	FR-4 (1.6mm) $T_g \geq 140^\circ\text{C}$, Cu plating min. 25 μm required on through-hole							
Insertion Force *1	40N / hole							
Retention Force *1	5N / hole							
Current Rating *2	4.5A	7.0A	14A	25A	30A	4.5A	4.5A	7.0A
Vibration *2	20G							
Operating Temperature	-40 - 125 $^\circ\text{C}$							

*1 Specifications will vary depending on through-hole diameter

*2 Results from Board-to-Board prototype. Specifications will vary depending on testing conditions.

Appendix : I-PEX Connectors Series



Click icon below to see latest product information



MHF[®]



High-Frequency
Micro **RF**
Connectors



CABLINE[®]
FPL[®]



High-Speed
Micro-**Coaxial**
Connectors



NOVASTACK[®]



High-Density
Board-to-Board
Connectors



EVAFLEX[®]
MINIFLEX[®]



High-Density
FFC/FPC
Connectors



ISH[®]
IARPB[®]



High-Power
Wire-to-Board
Connectors



CUSTOM





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