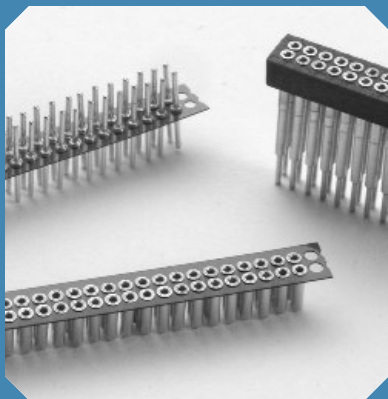


# Board to Board Connectors

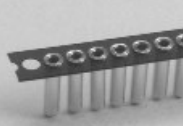

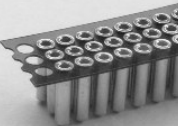
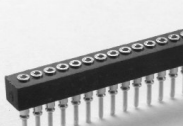
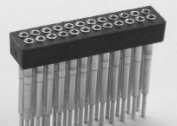





## Features:

- Male and female connectors are designed in mating pairs.
- .050/(1.27mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- For surface mount options, consult factory.
- Reliable mechanical support.
- Custom configurations available.

## .050/(1.27mm) Pitch Board to Board Connectors Molded and Peel-A-Way® Insulators

### Table of Models

	Single Row	Dual Row	Triple Row	
Female	 KBS	 KNS	 KTS	Description: <b>Peel-A-Way®</b> (KBS, KNS, KTS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)
	 FSDS	 RDDS (RDD*)		Description: <b>FR-4 (FSDS)</b> Mat'l: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Description: <b>Molded (RDDS, RDD)</b> Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)
Male	 KBA	 KNA (KDA*)	 KTA	Description: <b>Peel-A-Way®</b> (KBA, KNA, KDA, KTA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)

\* RDD and KDA have .100/(2.54mm) pitch between rows.

Note: FSDS replaces SDS, HSDS, and RSDS.

RDDS replaces DDS and HDDS.

RDD replaces DD.



Tel.: (+34) 902 450 160

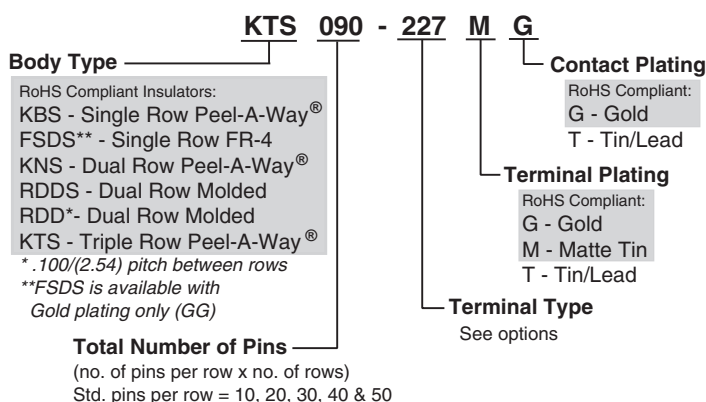
Fax: (+34) 902 433 088

[ermec@ermec.com](mailto:ermec@ermec.com)

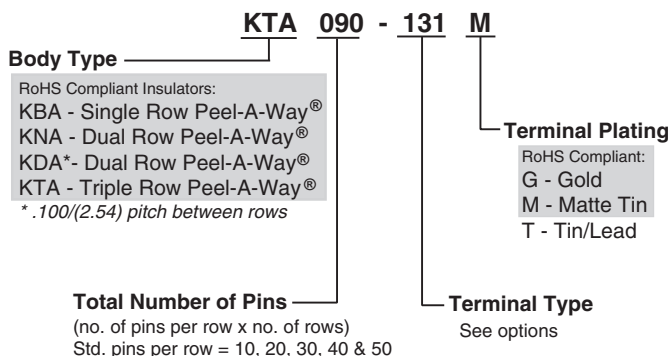
[www.ermec.com](http://www.ermec.com)

### How To Order

#### Female



#### Male



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.



5 Energy Way, West Warwick, RI 02893 USA  
Tel: 800.424.9850 | 401.823.5200  
Fax: 401.823.8723  
[info@advanced.com](mailto:info@advanced.com) | [www.advanced.com](http://www.advanced.com)  
Catalog 16A

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

# .050/(1.27mm) Pitch Board to Board Connectors

## Molded and Peel-A-Way® Insulators

### Standard Female Terminals

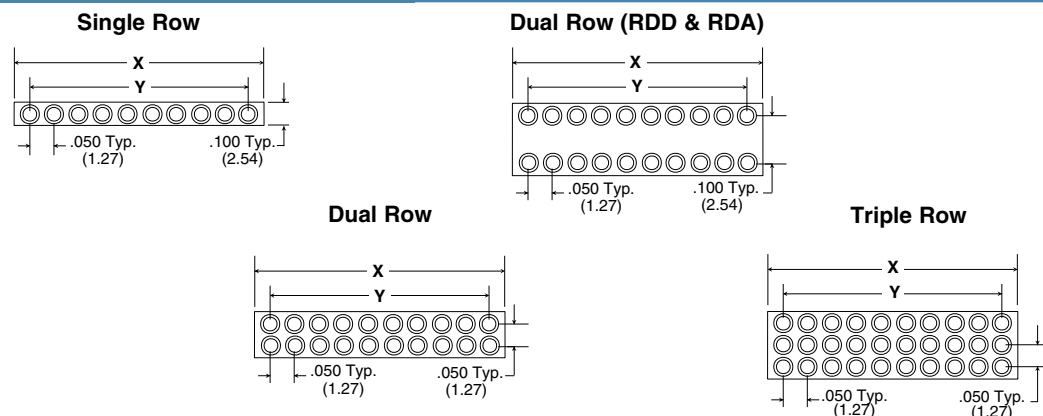
Additional standard and custom terminals available.  
See Terminals section or consult factory.

Type -168 Molded or FR-4 only	Type -347 Molded or FR-4 only	Type -205 Molded or FR-4 only	Type -227 Peel-A-Way® only

### Standard Male Terminals - Thru-Hole

Type -131 Peel-A-Way® only	Type -322 Peel-A-Way® only	Type -321 Peel-A-Way® only

### Dimensional Information



#### Molded or FR-4

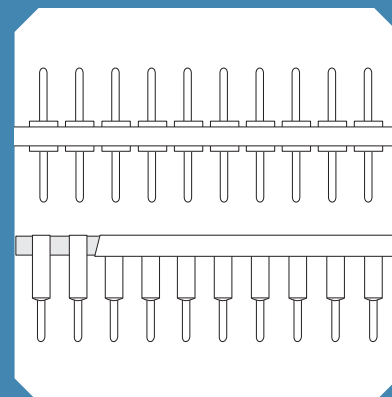
Total # of Pins per Connector			# of Pins Per Row	X in. (mm)	Y in. (mm)
Single	Dual	Triple			
010	020	030	10	.550 (13.97)	.450 (11.43)
020	040	060	20	1.050 (26.67)	.950 (24.13)
030	060	090	30	1.550 (39.37)	1.450 (36.83)
040	080	120	40	2.050 (52.07)	1.950 (49.53)
050	100	150	50	2.550 (64.77)	2.450 (62.23)

#### Peel-A-Way®

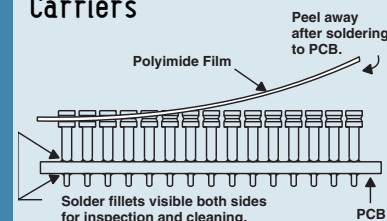
Total # of Pins per Connector			# of Pins Per Row	X in. (mm)	Y in. (mm)
Single	Dual	Triple			
010	020	030	10	.650 (16.51)	.450 (11.43)
020	040	060	20	1.150 (29.21)	.950 (24.13)
030	060	090	30	1.650 (41.91)	1.450 (36.83)
040	080	120	40	2.150 (54.61)	1.950 (49.53)
050	100	150	50	2.650 (67.31)	2.450 (62.23)

Multiply number of rows by number of pins per row for total pin count in part number.

## Board to Board Connectors



### Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

#### Available Online:

- RoHS Qualification Test Report

See following pages for typical board to board spacing configuration and additional dimensional information.

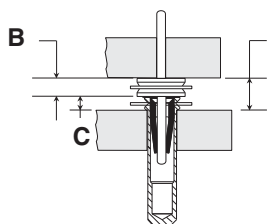


5 Energy Way, West Warwick, RI 02893 USA  
Tel: 800.424.9850 | 401.823.5200  
Fax: 401.823.8723  
info@advanced.com | www.advanced.com  
Catalog 16A

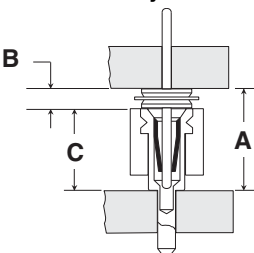
### Dimensional Information

#### Thru-Hole Female & Male

**Figure 1**  
Peel-A-Way® Female &  
Peel-A-Way® Male

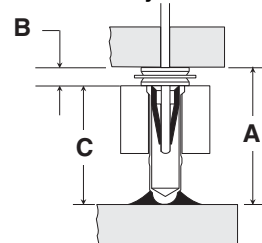


**Figure 2**  
Molded or FR-4 Female  
& Peel-A-Way® Male



#### Surface Mount Female & Thru-Hole Male

**Figure 3**  
Molded or FR-4 Female  
& Peel-A-Way® Male



Order one each Male & Female  
to get the required "A" dim.

B	C	A	Male Part #	Female Part #	Fig.
.031/(.79)	.015/(.38)	.046/(1.17)	KBA020-131G	KBS020-227MG	1
.070/(1.78)	.015/(.38)	.085/(2.16)	KBA020-321G	KBS020-227MG	1
.085/(2.16)	.015/(.38)	.100/(2.54)	KBA020-322G	KBS020-227MG	1
.031/(.79)	.118/(3.00)	.190/(4.83)	KBA020-131G	FSDS020-551GG	3
.070/(1.78)	.118/(3.00)	.188/(4.78)	KBA020-321G	FSDS020-551GG	3
.030/(.76)	.161/(4.09)	.192/(4.88)	KBA020-131G	FSDS020-553GG	3
.031/(.79)	.165/(4.19)	.196/(4.98)	KBA020-131G	FSDS020-168GG	2
.085/(2.16)	.118/(3.00)	.203/(5.16)	KBA020-322G	FSDS020-551GG	3
.070/(1.78)	.161/(4.09)	.231/(5.87)	KBA020-321G	FSDS020-553GG	3
.070/(1.78)	.165/(4.19)	.235/(5.97)	KBA020-321G	FSDS020-168GG	2
.085/(2.16)	.165/(4.19)	.250/(6.35)	KBA020-322G	FSDS020-168GG	2
.085/(2.16)	.161/(4.09)	.246/(6.25)	KBA020-322G	FSDS020-553GG	3
.031/(.79)	.278/(7.06)	.309/(7.85)	KBA020-131G	FSDS020-205GG	2
.070/(1.78)	.278/(7.06)	.348/(8.84)	KBA020-321G	FSDS020-205GG	2
.085/(2.16)	.278/(7.06)	.363/(9.22)	KBA020-322G	FSDS020-205GG	2

20 position single row part numbers shown.

See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.