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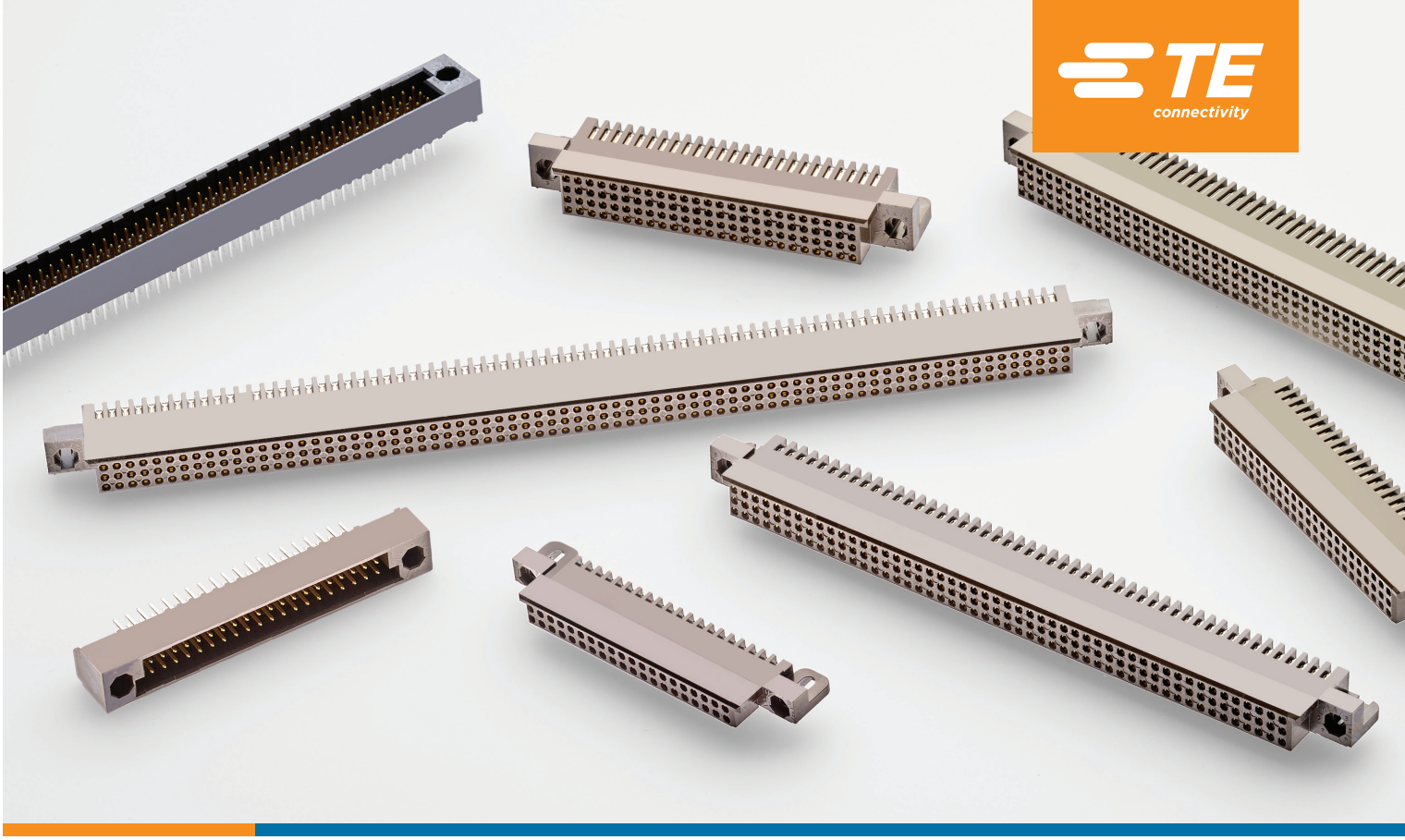
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AMP-HDI BOARD-TO-BOARD CONNECTORS

TE Connectivity's (TE) AMP-HDI connectors encompass a two-piece high density pin count and Twin Beam Contact (TBC) board-to-board connector interface. The portfolio is designed for reliable electrical and mechanical performance in rugged applications, including aerospace, military, industrial, instrumentation, and data communications.

Benefits

- Broad connector portfolio for design flexibility ranging from 40 to 300 positions; 2, 3, 4 rows; Four or Twin Beam Contacts, and straight or right-angle assemblies
- Full selection of signal connectors, power pins, guidance, keying, mating and mounting hardware
- Durable high-temperature materials compatible with vapor phase and infrared reflow soldering
- Excellent mechanical and electrical performance in vibration and shock with gold plated square posts providing four areas of contact per connection
- Highly economical for reliability, quality, density, and low mating force
- Twin Beam Contacts allow for closed entry in MFBL (make first, break last) sequencing available with short and long pins

Target Markets

- Data Communication Systems
- Aerospace and Military Electronics
- Industrial Instrumentation

Applications

Aerospace Data Processing

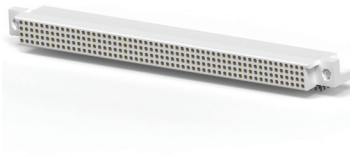
- Communications Hubs and Processing
- Two-Level Maintenance and ESD Sensitive Applications
- Mobile and Fixed Satellite Terminals and Ground Base Stations
- Power Supply and Distribution
- Sensory Array Hubs and Data Processing
- Vehicle Mission Computers and Navigation

Industrial Data Communication Systems

- Power Automation
- Test and Lab Equipment
- Energy Distribution
- Monitoring Equipment

Number of Positions by Row Count

	2 Row	3 Row	4 Row
Number of Positions	**40 to 200**	**96 to 240**	**100 to 300**



4 Row AMP-HDI Receptacle Assembly

Materials

- Contact: Gold plating options over nickel, tin; copper alloy
- Housing: Glass-filled thermoplastic, UL94 V-0

Mechanical

- Vibration: EIA 364-28D and IEC 60512-6-4
- Mating Force: 2.5 oz [14.1g] max average per contact
- Unmating Force: .4 oz [56.7g] min average per contact
- Contact retention: 3 pounds
- Durability: 250 mating cycles

Environmental

- Operating Temperature Range: -65 to 125°C [-85 – 257°F]
- Thermal Shock: EIA 364-32C and IEC 60512-11-4
- Humidity-temperature cycling 25 and 65°C at 95% RH

Electrical

- Current Rating: 3A max
- Contact Resistance: 15 mΩ
- Insulation Resistance: 1000 M

Standards & Specifications

- UL94 V-0
- UL-STD-498
- MIL-STD-2166
- MIL-C-55302/173 through 181
- EIA 364
- IEC 60512

Part Number Detail

Positions Loaded	Post Length (MM)	Post Length (Inch)	Product Type	Orientation	Board Locks	RoHs Compliant	Part Number
2 Row							
40	4.57	0.18	Receptacle	Vertical	Without	No	532428-3
40	4.83	0.19	Plug	Vertical	Without	No	532430-3
60	4.57	0.18	Receptacle	Vertical	Without	No	532428-5
60	4.83	0.19	Plug	Vertical	Without	Yes	5532430-5
60	6.35	0.25	Plug	Vertical	With	No	532446-5
100	4.57	0.18	Receptacle	Vertical	Without	No	532428-9
100	4.83	0.19	Plug	Vertical	Without	No	532430-9
100	6.35	0.25	Plug	Vertical	With	No	532446-9
110	4.57	0.18	Receptacle	Vertical	Without	No	1-532428-0
110	4.83	0.19	Plug	Vertical	With	No	1-533903-1
110	4.83	0.19	Plug	Vertical	Without	No	1-532430-0
150	3.05	0.12	Receptacle	Vertical	Without	No	1-532825-4
150	4.83	0.19	Plug	Vertical	Without	No	1-532430-4
150	6.35	0.25	Plug	Vertical	With	No	1-532446-4
200	4.57	0.18	Receptacle	Vertical	Without	No	1-532428-5
200	6.35	0.25	Plug	Vertical	With	No	1-532446-9
200	6.35	0.25	Plug	Vertical	Without	Yes	1-5532446-9
3 Row							
75	3.05	0.12	Receptacle	Right Angle	Without	Yes	533268-1
75	4.57	0.18	Receptacle	Right Angle	Without	No	532431-1
75	4.83	0.19	Plug	Vertical	Without	Yes	5532433-1
75	6.35	0.25	Plug	Vertical	With	Yes	5532447-1
96	3.05	0.12	Receptacle	Right Angle	Without	Yes	5533268-3
96	4.57	0.18	Plug	Right Angle	Without	No	533420-3
96	4.57	0.18	Receptacle	Right Angle	Without	No	532431-3
96	4.83	0.19	Plug	Vertical	Without	No	533911-2
96	6.35	0.25	Plug	Vertical	With	Yes	5532447-3
120	3.05	0.12	Receptacle	Right Angle	Without	Yes	5533268-5
120	4.57	0.18	Receptacle	Right Angle	Without	Yes	598213-5
120	4.83	0.19	Plug	Vertical	Without	No	532433-5
120	6.35	0.25	Plug	Vertical	With	Yes	5532447-5
150	3.05	0.12	Receptacle	Right Angle	Without	No	533268-7
150	4.57	0.18	Receptacle	Right Angle	Without	No	532431-7
150	4.83	0.19	Plug	Vertical	Without	No	532433-7
150	6.35	0.25	Plug	Vertical	With	No	532447-7
165	3.05	0.12	Receptacle	Right Angle	Without	No	533268-8
165	4.57	0.18	Receptacle	Right Angle	Without	No	532431-8
165	4.83	0.19	Plug	Vertical	Without	No	532433-8
165	6.35	0.25	Plug	Vertical	With	No	532447-7
210	4.57	0.18	Receptacle	Right Angle	Without	Yes	1-5532431-1
210	4.83	0.19	Plug	Vertical	Without	No	1-532433-1
210	6.35	0.25	Plug	Vertical	With	No	1-532447-1
240	3.05	0.12	Receptacle	Right Angle	Without	yes	5533514-1
240	4.57	0.18	Receptacle	Right Angle	Without	No	1-532431-3
240	6.35	0.25	Plug	Vertical	With	No	533294-1

Part Number Detail

Positions Loaded	Post Length (MM)	Post Length (Inch)	Product Type	Orientation	Board Locks	RoHs Compliant	Part Number
4 Row							
100	3.05	.12	Plug	Vertical	Without	N	533286-1
100	3.05	.12	Receptacle	Right Angle	Without	N	532903-2
100	3.05	.12	Receptacle	Right Angle	Without	Y	5532903-2
100	4.57	.18	Receptacle	Right Angle	Without	Y	5532434-1
100	4.57	.18	Receptacle	Right Angle	Without	N	532434-1
100	4.83	.19	Plug	Vertical	Without	Y	5532436-1
128	3.05	.12	Plug	Vertical	Without	Y	5533286-3
128	3.05	.12	Receptacle	Right Angle	Without	N	532903-3
128	4.83	.19	Plug	Vertical	Without	N	532436-3
128	6.35	.25	Plug	Vertical	With	N	532448-3
140	4.57	.18	Receptacle	Right Angle	Without	Y	5532434-4
140	4.57	.18	Receptacle	Right Angle	Without	N	532434-4
140	4.83	.19	Plug	Vertical	Without	N	532436-4
140	6.35	.25	Plug	Vertical	With	Y	5532448-4
160	3.05	.12	Plug	Vertical	Without	N	533286-5
160	3.05	.12	Receptacle	Right Angle	Without	N	532903-5
160	4.57	.18	Receptacle	Right Angle	Without	N	532434-5
160	4.57	.18	Receptacle	Right Angle	Without	Y	5532434-5
160	4.83	.19	Plug	Vertical	Without	Y	5532436-5
160	6.35	.25	Plug	Vertical	With	N	532448-5
180	3.05	.12	Receptacle	Right Angle	Without	Y	5532903-6
180	3.05	.12	Receptacle	Right Angle	Without	N	532903-6
180	4.57	.18	Receptacle	Right Angle	Without	Y	5532434-6
180	4.57	.18	Receptacle	Right Angle	Without	N	532434-6
180	4.83	.19	Plug	Vertical	Without	N	532436-6
180	6.35	.25	Plug	Vertical	With	Y	5532448-6
200	3.05	.12	Receptacle	Right Angle	Without	Y	5532903-7
200	4.57	.18	Receptacle	Right Angle	Without	N	532434-7
200	4.83	.19	Plug	Vertical	Without	N	532436-7
200	6.35	.25	Plug	Vertical	With	N	532448-7
220	3.05	.12	Receptacle	Right Angle	Without	Y	5532903-8
220	3.05	.12	Receptacle	Right Angle	Without	N	532903-8
220	4.57	.18	Receptacle	Right Angle	Without	N	532434-8
220	4.83	.19	Plug	Vertical	Without	N	532436-8
220	6.35	.25	Plug	Vertical	With	N	532448-8
240	3.05	.12	Plug	Vertical	Without	N	533286-9
240	4.57	.18	Receptacle	Right Angle	Without	N	532434-9
240	4.57	.18	Receptacle	Right Angle	Without	Y	5532434-9
240	4.83	.19	Plug	Vertical	Without	N	532436-9
240	6.35	.25	Plug	Vertical	With	N	532448-9
300	4.57	.18	Receptacle	Right Angle	Without	N	1-532434-2
300	4.83	.19	Plug	Vertical	Without	N	1-532436-2

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1-1773957-5 06/18 DND

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