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**AMP DUOPLUG 2.5 Mark II Connector System**

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**AMP DUOPLUG 2.5 Power Connector System**

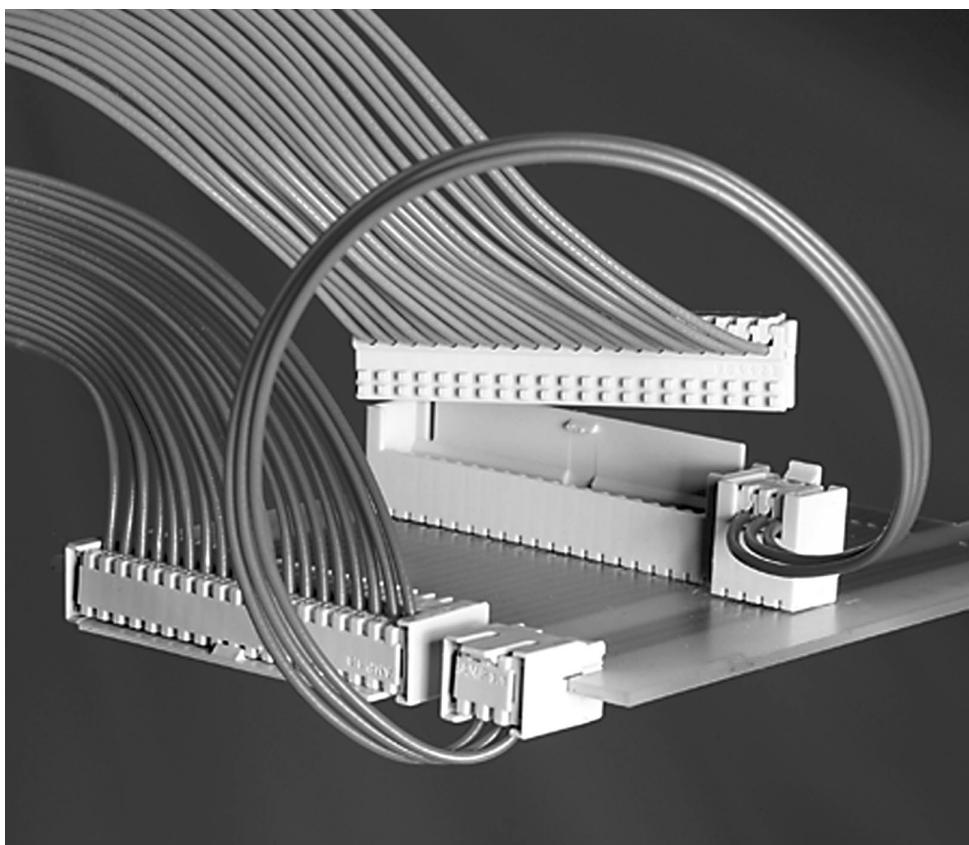
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**AMP DUOPLUG 2.5  
Connector System  
for Wire-to-Board  
Applications**

The AMP DUOPLUG 2.5 Connector System offers a complete printed circuit board system which is suitable for edge as well as female to header applications using the same female part.

The top of the female contact is provided with an IDC slot, a technique which permits high speed wire termination. Application tooling specially developed for this system can produce cable assemblies with connectors at one or both ends.

The connector keying is produced with a cutting unit on the application tooling machine.

**Introduction****Applications**

- Household Appliances
- Consumer Electronics
- Telecommunication Industry
- Automotive Industry
- Vending Machines
- Measuring Devices and others

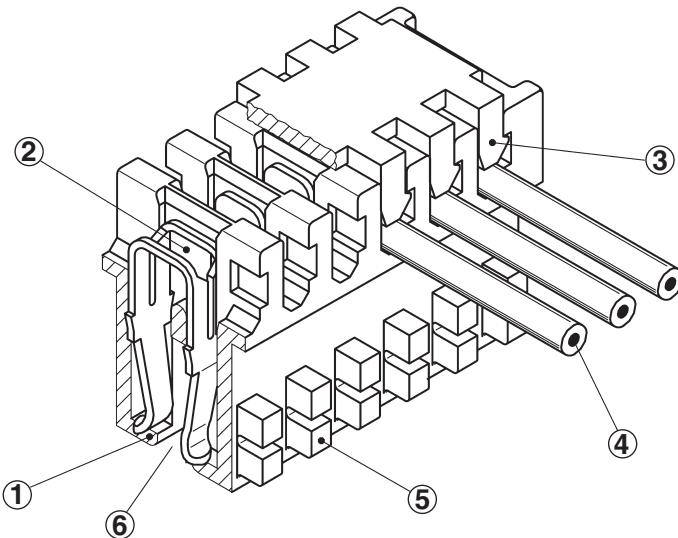
**Technical Data**

<b>No. of Positions:</b>	<b>Wire Range (DGB I):</b>	<b>Insulation Hardness:</b>
3- to 20-positions	0.22mm <sup>2</sup> , 7 stranded	Shore A 92±3
3- to 12-positions	0.35mm <sup>2</sup> , 12 stranded	
<b>Centerline:</b>	<b>Wire Range (DGB II):</b>	<b>Flammability Rating:</b>
2.5 mm	0.35mm <sup>2</sup> , 7 stranded	acc. UL 94 V-0
<b>Termination Technique:</b>	<b>Temperature Range:</b>	<b>AMP Product Specification:</b>
Insulation Displacement Technique	-40 °C up to +110 °C	108-18056 / 108-20238
<b>Housing Material:</b>	<b>Current Voltage:</b>	<b>AMP Application Specification:</b>
PBT-GF, PA 6.6 GF	63 V (250 V)	114-18049
<b>Contact Material:</b>	<b>Current Rating:</b>	
CuSn (CuZn) Phosphor Bronze (Brass)	max. 2 A	
<b>Contact Finish:</b>	<b>Insulation Diameter:</b>	
Female pre-tinned Male post-tinned	1.2-1.4mm	
<b>PC Board Thickness:</b>	<b>Contact Resistance:</b>	
1.5mm	≤10 mΩ	

## Technical Features

## Product Features

- Connector system for rationalised production
- High production rate with no rejects
- One-piece and two-piece connector system
- Keyable female part
- Contacts protected against damage
- Controllable wire insertion
- Wire strain relief provided by cover
- Defined wire insertion depth
- Customer specific version of header
- Protection provided by three side walls
- Designed according to RAST 2.5 Specification
- VDE Tested acc. to:  
DIN VDE 0627/9.91 and  
DIN EN 60998, Part 2-3

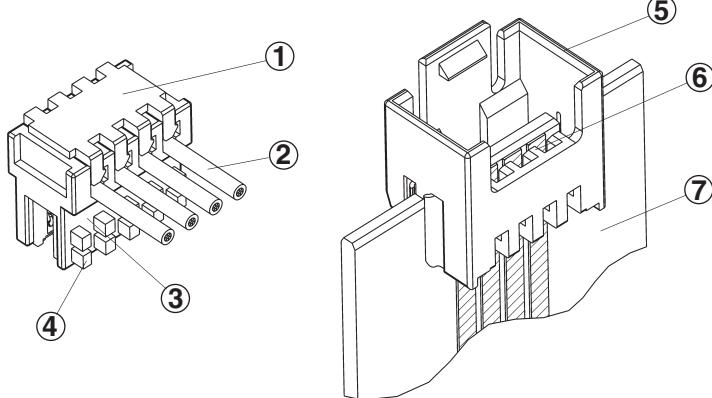


- |   |  |   |  |   |  |
|---|--|---|--|---|--|
| 1 | Very good contact protection in order to avoid any stubbing problems.  | 3 | Reliable locking feature of every single contact assures proper strain relief. | 6 | Connector design suitable for one-piece as well as for two-piece connection.             |
| 2 | Termination of the wire via metal stuffer of the tooling which guarantees a defined position of the wire in the IDC-slot of the contact. | 4 | Contact suitable for 7- and 12-stranded wire.                                  | 5 | Cutting of the keying in accordance to customer's demand during the termination process. |

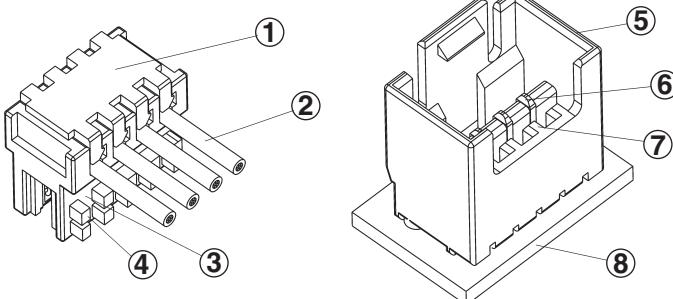
## Indirect and Direct Connection, 2.5 mm Centerline

Direct Connection,  
2.5 mm Centerline

- 1 Cover
- 2 Wire
- 3 Connector Front Side
- 4 Keying
- 5 Tab Header
- 6 Keying
- 7 PC Board 1.5mm thick

Indirect Connection,  
2.5 mm Centerline

- 1 Cover
- 2 Wire
- 3 Connector Front Side
- 4 Keying
- 5 Tab Header
- 6 Tab Contact  
(1.5mm x 0.6mm)
- 7 Keying
- 8 PC Board 1.5mm thick



## Technical Data

## No. of Positions:

3- to 20-positions

## Centerline:

2.5 mm  
(selective loading possible)

## Termination Technique:

Insulation Displacement  
Technique

## Wire Size Range:

**IDC Contact DGB I:**  
0.22-0.25mm<sup>2</sup>, 7 strands  
0.32-0.35mm<sup>2</sup>, 12 strands  
Solid wire 0.40-0.50mm  
diameter

## IDC Contact DGB II:

0.32-0.35mm<sup>2</sup>, 7 strands

## Insulation Diameter:

Nominal size 1.3mm

## Insulation Hardness:

Shore A 92 ±3

## Contact Material:

Phosphor Bronze (Brass)

## Contact Finish:

Female pre-tinned  
Male post-tinned

## Housing Material:

PBT-GF, PA 6.6 GF

## Flammability Rating:

UL 94 V-0

## VDE Tested acc. to:

DIN VDE 0627/9.91 and  
DIN EN 60998, Part 2-3

## Keying:

Variable, because there is a row  
of keying ribs on the front side  
of the connector. Ribs removed  
during application according  
to requirements.

## Current Carrying Capacity:

max. 2 A

## Contact Resistance:

≤10 mΩ

## Nominal Voltage:

Fully loaded, 63 V  
Selectively loaded, 250 V

## Temperature Range:

-40 °C up to +110 °C

## AMP Product Specification:

108-18056

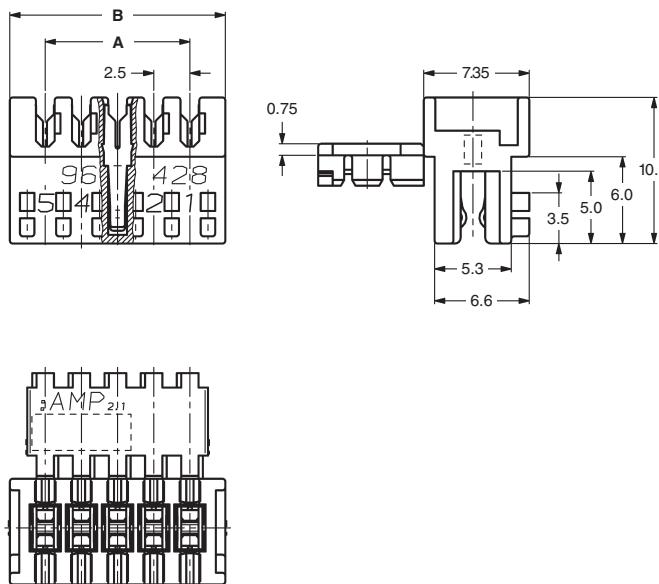
## AMP Application Specification:

114-18049

## Packaging Specification:

107-18026

## Female Connectors



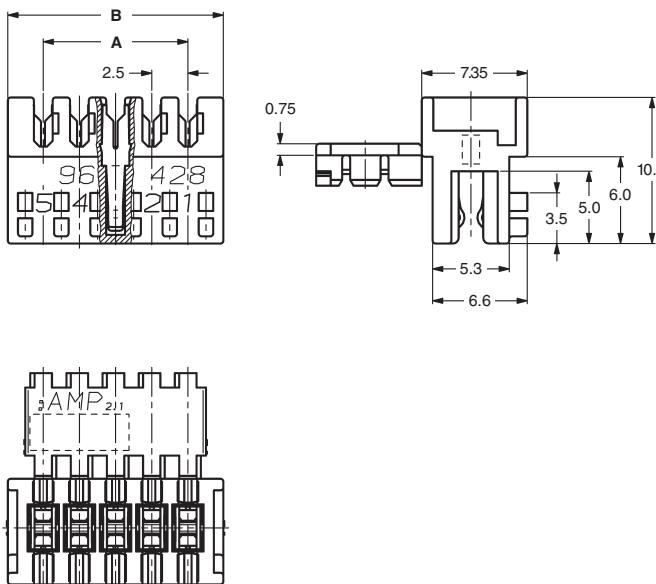
No. of Positions	Dimensions (mm)		Part Numbers			Package Quantity
			DGB I 1) Colour Grey	Wire Ranges DGB I 1) Colour Natural	DGB II 1) Colour Natural 2)	
	A	B				
3	5.0	9.9	3-829868-3	1-966194-3	1-966504-3	4.480
4	7.5	12.4	3-829868-4	1-966194-4	1-966504-4	3.640
5	10.0	14.9	3-829868-5	1-966194-5	1-966504-5	3.080
6	12.5	17.4	3-829868-6	1-966194-6	1-966504-6	2.800
7	15.0	19.9	3-829868-7	1-966194-7	1-966504-7	2.240
8	17.5	22.4	3-829868-8	1-966194-8	1-966504-8	2.240
9	20.0	24.9	3-829868-9	1-966194-9	1-966504-9	1.860
10	22.5	27.4	3-829868-0	1-966194-0	1-966504-0	1.680
11	25.0	29.9	3-829869-1	1-966195-1	1-966505-1	1.680
12	27.5	32.4	3-829869-2	1-966195-2	1-966505-2	1.400
13	30.0	34.9	3-829869-3	1-966195-3	1-966505-3	1.400
14	32.5	37.4	3-829869-4	1-966195-4	1-966505-4	1.400
15	35.0	39.9	3-829869-5	1-966195-5	1-966505-5	1.120
16	37.5	42.4	3-829869-6	1-966195-6	1-966505-6	1.120
17	40.0	44.9	3-829869-7	1-966195-7	1-966505-7	1.120
18	42.5	47.4	3-829869-8	1-966195-8	1-966505-8	1.120
19	45.0	49.9	3-829869-9	1-966195-9	1-966505-9	840
20	47.5	52.4	3-829869-0	1-966195-0	1-966505-0	840

1) Wire Range: DGB I:  $7 \times \emptyset 0.20 = 0.22 \text{ mm}^2$   
 $12 \times \emptyset 0.20 = 0.35 \text{ mm}^2$

DGB II:  $7 \times \emptyset 0.25 = 0.35 \text{ mm}^2$

2) Versions for higher ambient temperature

## Female Connectors, Selectively Loaded



No. of Positions	Dimensions (mm)		Part Numbers			Package Quantity
			Wire Ranges		DGB I 1) Colour Grey	
	A	B				
3	5.0	9.9	3-966480-3		1-966842-3	4.480
5	10.0	14.9	3-966480-5		1-966842-5	3.080
7	15.0	19.9	3-966480-7		1-966842-7	2.240
9	20.0	24.9	3-966480-9		1-966842-9	1.860
11	25.0	29.9	3-966481-1		1-966843-1	1.680
13	30.0	34.9	3-966481-3		1-966843-3	1.400
15	35.0	39.9	3-966481-5		1-966843-5	1.120
17	40.0	44.9	3-966481-7		1-966843-7	1.120
19	45.0	49.9	3-966481-9		1-966843-9	840

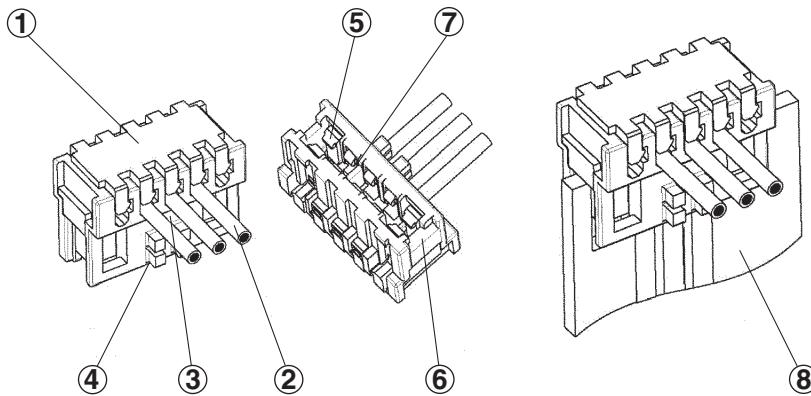
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2) Versions for higher ambient temperature

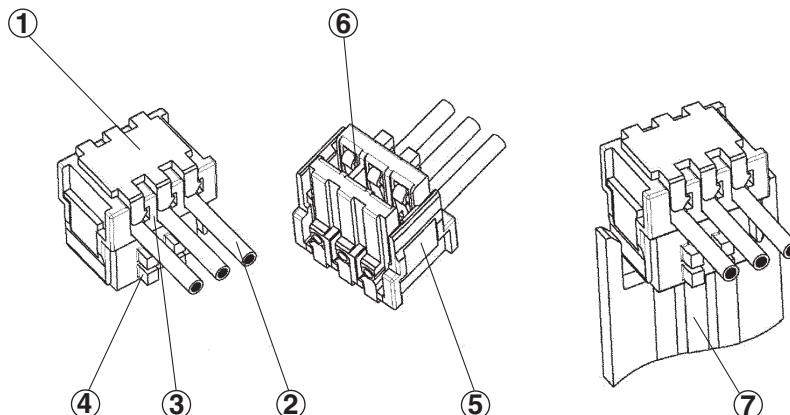
## Direct Connection, 2.5 mm Centerline

Direct Connection,  
Interior Locking  
2.5 mm Centerline

- 1 Cover
- 2 Wire
- 3 Connector Front Side
- 4 Keying
- 5 Interior Locking Latch
- 6 Keying Rib
- 7 Polarisation Rib between cavities
- 8 PC Board 1.5mm thick

Direct Connection,  
Side Locking  
2.5 mm Centerline

- 1 Cover
- 2 Wire
- 3 Connector Front Side
- 4 Keying
- 5 Side Locking Latch
- 6 Polarisation Rib between cavities
- 7 PC Board 1.5mm thick



## Technical Data

## No. of Positions:

3- to 20-positions  
3- to 12-positions

## Centerline:

2.5 mm  
(selective loading possible)

## Termination Technique:

Insulation Displacement  
Technique

## Wire Size Range:

**IDC Contact DGB I:**  
0.22-0.25mm<sup>2</sup>, 7 strands  
0.32-0.35mm<sup>2</sup>, 12 strands  
Solid wire 0.40-0.50mm  
diameter

## IDC Contact DGB II:

0.32-0.35mm<sup>2</sup>, 7 strands

## Insulation Diameter:

Nominal size 1.3mm

## Insulation Hardness:

Shore A 92 ±3

## Contact Material:

Phosphor Bronze (Brass)

## Contact Finish:

Female pre-tinned  
Male post-tinned

## Housing Material:

PBT-GF, PA 6.6 GF

## Flammability Rating:

UL 94 V-0

## VDE Tested acc. to:

DIN VDE 0627/9.91 and  
DIN EN 60998, Part 2-3

## Keying:

Variable, because there is a row  
of keying ribs on the front side  
of the connector. Ribs removed  
during application according  
to requirements.

## Current Carrying Capacity:

max. 2 A

## Contact Resistance:

≤10 mΩ

## Nominal Voltage:

Fully loaded, 63 V  
Selectively loaded, 250 V

## Temperature Range:

-40 °C up to +110 °C

## AMP Product Specification:

108-18056 / 108-20238

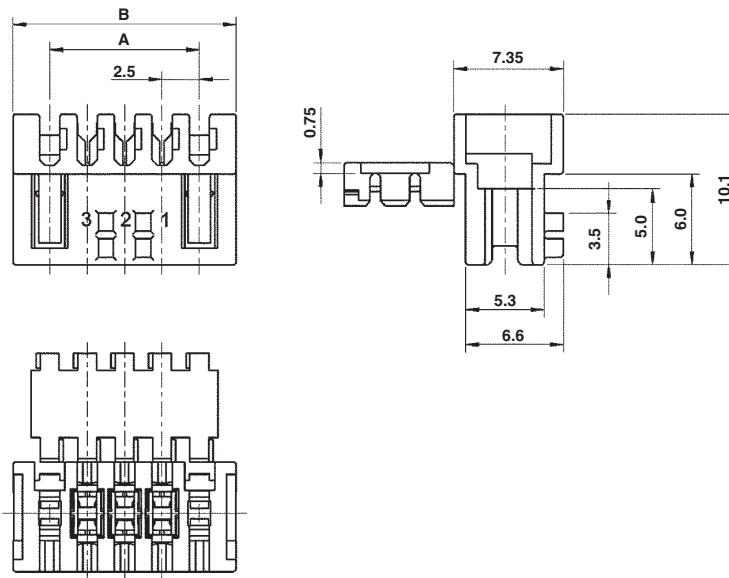
## AMP Application Specification:

114-18049

## Packaging Specification:

107-18026 / 107-20237

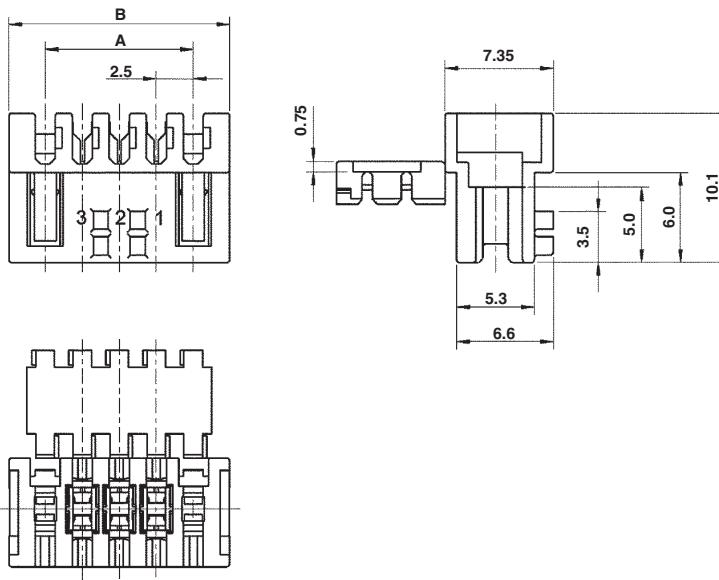
## Female Connector, Interior Locking



No. of Positions	Dimensions (mm)		Part Number	Polarisation Ribs Between Pos.	Empty Pos.	Package Quantity
	A	B				
2	5.0	9.9	1-1355181-2	—	—	4480
3	10.0	14.9	1-1355181-3	—	—	3080
4	12.5	17.4	1-1355181-4	—	—	2800
5	15.0	19.9	1-1355181-5	—	—	2240
6	17.5	22.4	1-1355181-6	—	—	2240
			2-1355181-6	3-4	—	1960
7	20.0	24.9	1-1355181-7	—	—	1680
8	22.5	27.4	1-1355181-8	—	—	1680
			2-1355181-8	3-4	—	1680
9	25.0	29.9	1-1355181-9	—	—	1680
			2-1355181-9	4-5	—	1680
10	27.5	32.4	1-1534557-0 *	4-5	3-5	1400
			2-1534557-0 *	4-5	8-10	1400
11	30.0	34.9	1-1355182-1	—	—	1400
12	32.5	37.4	1-1355182-2	—	—	1400
			2-1355182-2	3-4	—	1400
13	35.0	39.9	1-1355182-3	—	—	1120
14	37.5	42.4	1-1355182-4	—	—	1120
15	40.0	44.9	1-1355182-5	—	—	1120
16	45.5	47.4	1-1355182-6	—	—	1120
17	45.0	49.9	1-1355182-7	—	—	840
18	47.5	52.4	1-1355182-8	—	—	840

\* Special version selective loaded

## Female Connector, Side Locking

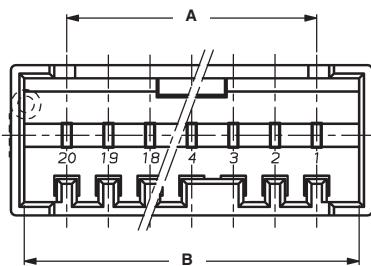
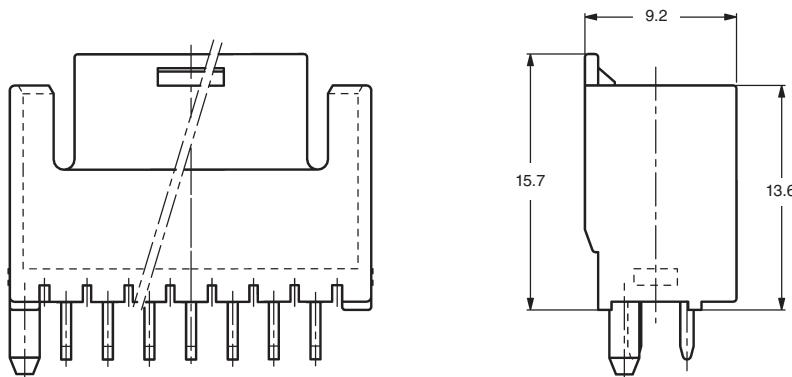


## Fully Loaded

No. of Positions	Dimensions (mm)		Part Number	Colour	Polarisation Ribs Between Pos.	Package Quantity
	A	B				
3	5.0	9.9	0-284865-3	Black	2-3	4480
4	7.5	12.4	0-284865-4	Black	1-2	3640
5	10.0	14.9	0-284865-5	Black	2-3	3080
			2-284865-5	Red	3-4	3080
6	12.5	17.4	0-284865-6	Black	2-3	2800
7	15.0	19.9	0-284865-7	Black	2-4	2240
			0-284865-8	Black	2-5	2240
8	17.5	22.4	2-284865-8	Red	3-4	2240
9	20.0	24.9	0-284865-9	Black	2-3	1960
			1-284865-0	Black	2-3	1680
10	22.5	27.4	2-284865-0	Red	9-10	1680
			1-284865-2	Black	2-3	1400
12	27.5	32.4	2-284865-2	Red	11-12	1400
14	32.5	37.4	1-284865-4	Black	13-14	1400

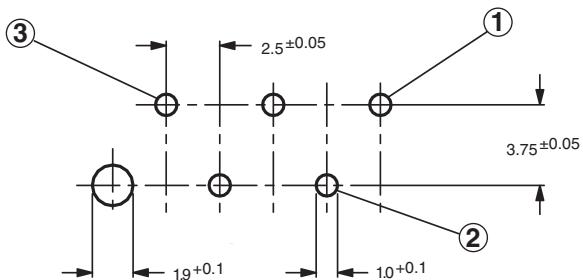
## Selectively Loaded

No. of Positions	Dimensions (mm)		Part Number	Colour	Polarisation Ribs Between Pos.	Empty Pos.	Package Quantity
	A	B					
8	17.5	22.4	0-284866-8	Blue	2-3	2-5	2240
			2-284866-8	Green	2-3	2	2240
9	20.0	24.9	0-284866-9	Blue	2-3	2-5-8	1960
10	22.5	27.4	1-284866-0	Blue	2-3	9	1680
12	27.5	32.4	1-284866-2	Blue	2-3	2-5-8-10	1400

**Tab Header 180°****PC Board Layout**

Solder Side View.

- 1** First Cavity for uneven numbered positions
- 2** First Cavity for even numbered positions
- 3** Last Cavity



## Tab Header 180° (continued)

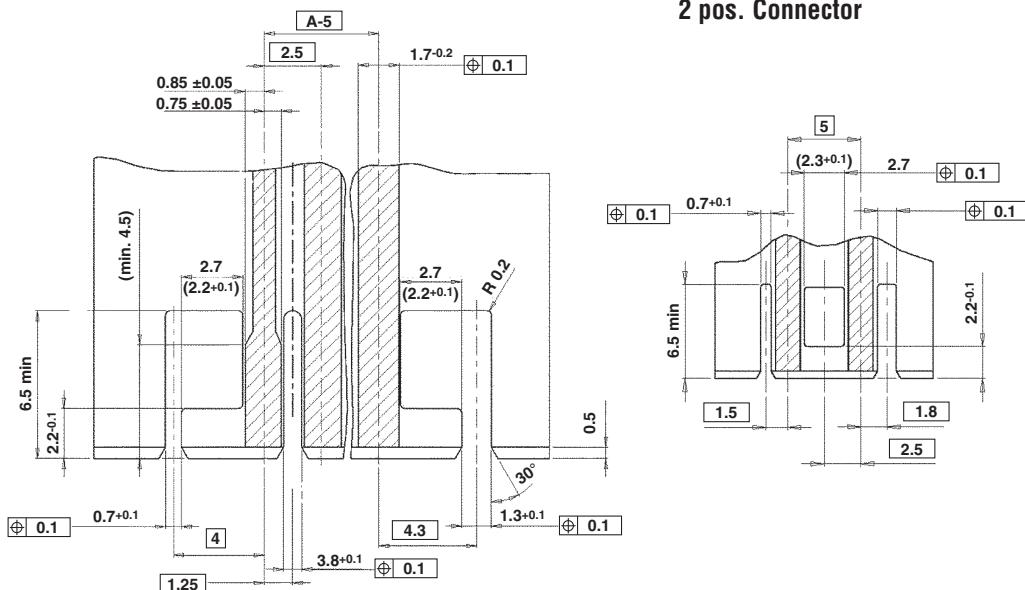
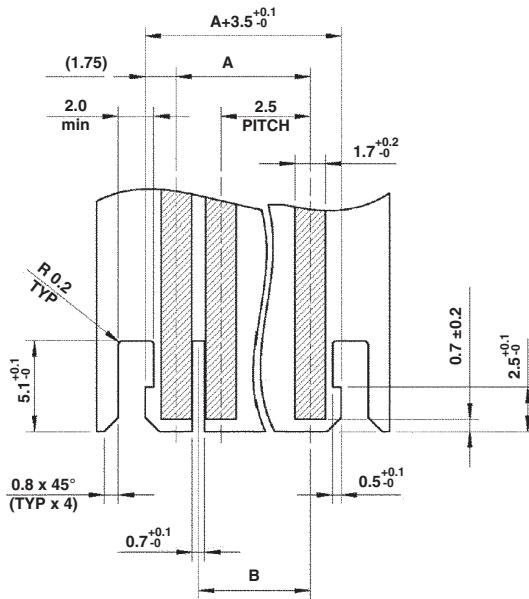
1

Part 2.5

No. of Positions	Dimensions (mm)		Colour	Keying between Cavity Number	Part Number	Package Quantity
	A	B				
3	5.0	10.15	natural	—	1-829866-3	416
3	5.0	10.15	grey	—	<b>2-829866-3</b>	416
3	5.0	10.15	grey	1/2	3-829866-3	416
4	7.5	12.65	natural	—	1-829866-4	352
4	7.5	12.65	grey	—	<b>2-829866-4</b>	352
5	10.0	15.15	natural	—	1-829866-5	300
5	10.0	15.15	grey	—	<b>2-829866-5</b>	300
5	10.0	15.15	grey	3/4	3-829866-5	300
5	10.0	15.15	grey	4/5	4-829866-5	300
6	12.5	17.65	natural	—	1-829866-6	256
6	12.5	17.65	grey	—	<b>2-829866-6</b>	256
7	15.0	20.15	natural	—	1-829866-7	224
7	15.0	20.15	grey	—	<b>2-829866-7</b>	224
7	15.0	20.15	grey	3/4	3-829866-7	224
8	17.5	22.65	natural	—	1-829866-8	196
8	17.5	22.65	grey	—	<b>2-829866-8</b>	196
9	20.0	25.15	natural	—	1-829866-9	180
9	20.0	25.15	grey	—	<b>2-829866-9</b>	180
10	22.5	27.65	natural	—	1-829866-0	168
10	22.5	27.65	grey	—	<b>2-829866-0</b>	168
11	25.0	30.15	natural	—	1-829867-1	150
11	25.0	30.15	grey	—	<b>2-829867-1</b>	150
12	27.5	32.65	natural	—	1-829867-2	140
12	27.5	32.65	grey	—	<b>2-829867-2</b>	140
13	30.0	35.15	natural	—	1-829867-3	140
13	30.0	35.15	grey	—	<b>2-829867-3</b>	140
14	32.5	37.65	natural	—	1-829867-4	128
14	32.5	37.65	grey	—	<b>2-829867-4</b>	128
15	35.0	40.15	natural	—	1-829867-5	120
15	35.0	40.15	grey	—	<b>2-829867-5</b>	120
16	37.5	42.65	natural	—	1-829867-6	112
16	37.5	42.65	grey	—	<b>2-829867-6</b>	112
17	40.0	45.15	natural	—	1-829867-7	104
17	40.0	45.15	grey	—	<b>2-829867-7</b>	104
18	42.5	47.65	natural	—	1-829867-8	102
18	42.5	47.65	grey	—	<b>2-829867-8</b>	102
19	45.0	50.15	natural	—	1-829867-9	96
19	45.0	50.15	grey	—	<b>2-829867-9</b>	96
20	47.5	52.65	natural	—	1-829867-0	90
20	47.5	52.65	grey	—	<b>2-829867-0</b>	90

Preferred Types are printed bold

Note: Additional Keying available on request.

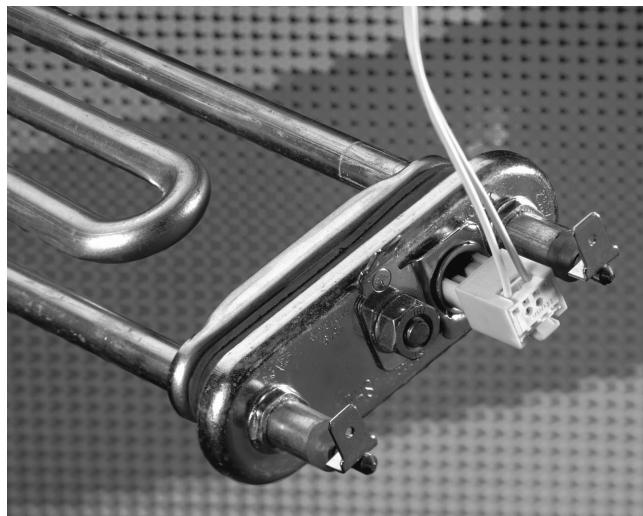
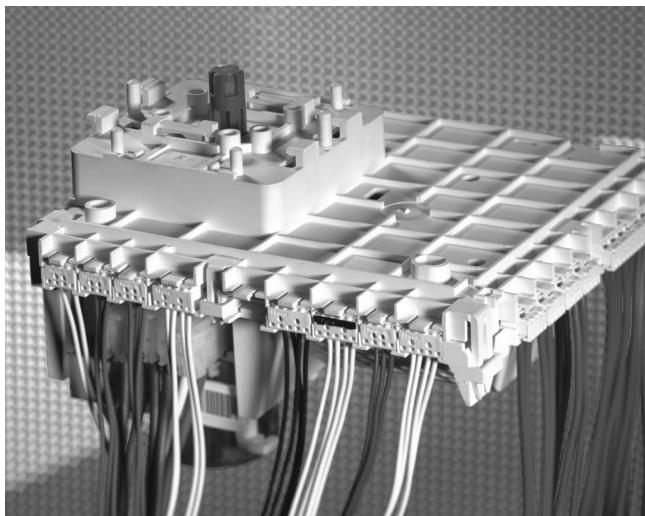
**PC Board Layout  
(Interior Locking)****Direct Connection, PC Board Frame****Special Version for  
2 pos. Connector****PC Board Layout  
(Side Locking)**

## PC Board Frame (continued)

No. of Positions	Dimensions (mm)		Colour	Keying between Cavity Number	Part Number	Package Quantity
	A	B				
3	5.0	10.1	black	—	<b>1-964575-3</b>	300
4	7.5	12.6	black	—	<b>1-964575-4</b>	300
4	7.5	12.6	black	1/2	2-964575-4	300
4	7.5	12.6	black	2/3	3-964575-4	300
4	7.5	12.6	black	3/4	4-964575-4	300
5	10.0	15.1	black	—	<b>1-964575-5</b>	300
5	10.0	15.1	black	3/4	2-964575-5	300
5	10.0	15.1	black	1/2, 4/5	3-964575-5	300
6	12.5	17.6	black	—	<b>1-964575-6</b>	300
6	12.5	17.6	black	3/4, 5/6	2-964575-6	300
6	12.5	17.6	black	3/4, 4/5	3-964575-6	300
7	15.0	20.1	black	—	<b>1-964575-7</b>	300
7	15.0	20.1	black	3/4	2-964575-7	300
7	15.0	20.1	black	1/2, 4/5, 6/7	3-964575-7	300
7	15.0	20.1	natural	1/2, 4/5, 6/7	4-964575-7	300
8	17.5	22.6	black	—	<b>1-964575-8</b>	300
8	17.5	22.6	black	1/2, 2/3, 3/4, 7/8, 8/—	2-964575-8	300
9	20.0	25.1	black	—	<b>1-964575-9</b>	300
9	20.0	25.1	black	2/3, 3/4, 8/9	2-964575-9	300
10	22.5	27.6	black	—	<b>1-964575-0</b>	300
10	22.5	27.6	black	—/1, 1/2, 2/3, 4/5, 7/8, 8/9, 10/—	3-964575-0	300
11	25.0	30.1	black	—	<b>1-964576-1</b>	300
11	25.0	30.1	black	1/2, 2/3, 4/5, 6/7	2-964576-1	300
12	27.5	32.6	black	—	<b>1-964576-2</b>	300
12	27.5	32.6	black	10/11	2-964576-2	300
12	27.5	32.6	natural	10/11	3-964576-2	300
12	27.5	32.6	black	5/6, 6/7, 7/8, 8/9, 9/10, 10/11, 11/12	4-964576-2	300
12	27.5	32.6	natural	2/3, 3/4, 4/5, 8/9, 9/10, 10/11, 11/12	5-964576-2	300
12	27.5	32.6	natural	—	6-964576-2	300
13	30.0	35.1	black	—	<b>1-964576-3</b>	300
15	35.0	40.1	black	—/1, 3/4, 6/7, 8/9, 9/10, 13/14, 14/15, 15/—	<b>2-964576-5</b>	300
17	40.0	45.1	black	3/4, 17/—	<b>2-964576-7</b>	300

Preferred Types are printed bold

Note: Additional No. of Positions and Keying available on request.

**Introduction****Applications**

- Household Appliances
- Small Appliances
- Gambling Machines
- Consumer Electronics
- Telecommunications Industry
- Automotive Industry
- Vending Machines
- Measuring Devices and Others

Tyco Electronics' newly developed AMP DUOPLUG 2.5 Mark II IDC connector system merges decades of experience in IDC technology, with the latest materials, processes and processing equipment.

The design is based on the RAST 2.5 Standard as a direct and indirect connecting system for the PC board and component applications.

The female connectors fit in existing RAST 2.5 headers and frames.

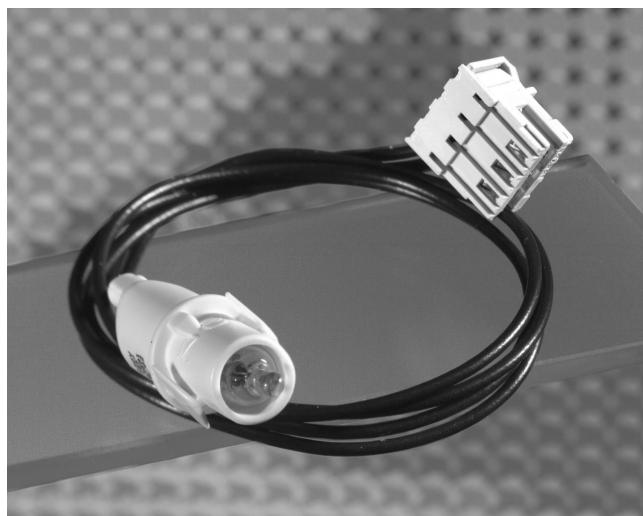
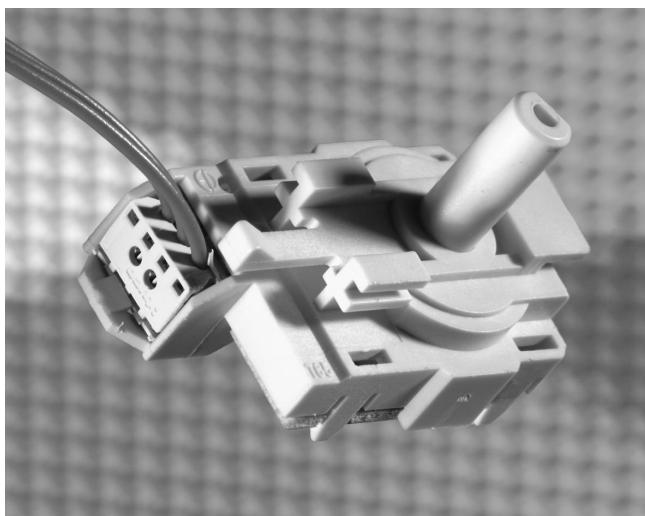
The twisted contact, the design of the contact zone and the two IDC slots guarantee safe functioning and a current rating up to 2 A.

The 7- and 12-stranded conductors are suitable for a wire range of 0.22 up to 0.35 mm<sup>2</sup> (AWG 24 up to AWG 22, AWM Style 1569/1007) with a max. insulation diameter of 1.6 mm.

The cover provides very good contact protection and has openings for easy electrical inspection.

We offer a complete range of termination equipment from the hand tool to the modular, fully-automatic IHM Mark III machine.

The connector keying and colour marking is done with units on the workstation. AMP DUOPLUG 2.5 Mark II and AMP DUOPLUG Power can be processed with minimal set-up times on the same workstation.



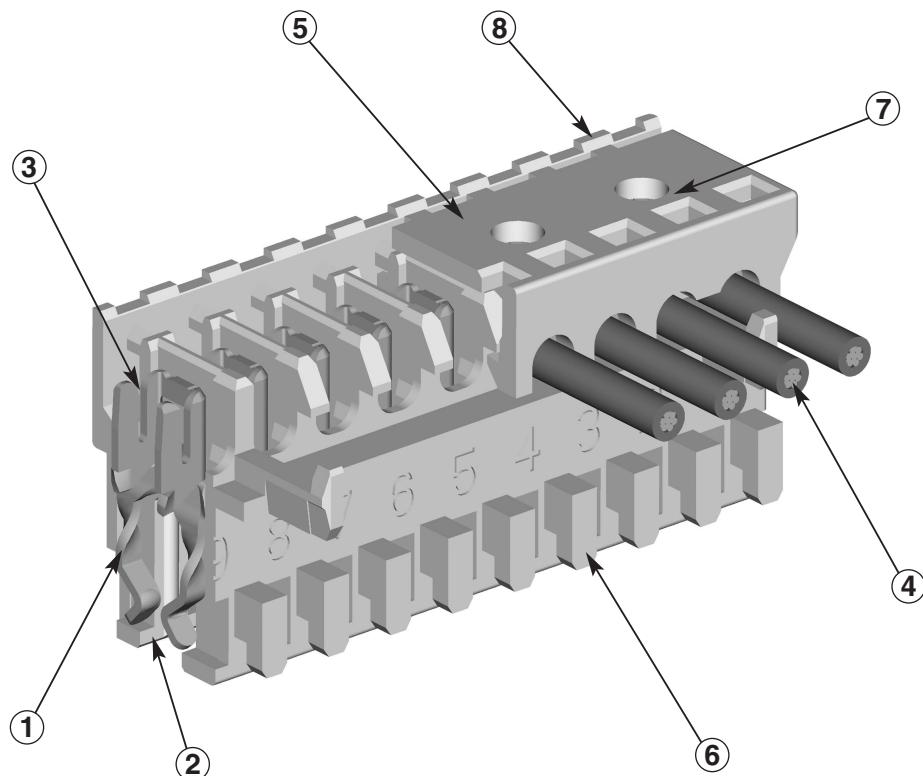
## Product Features

- IDC connector system for harness production
- For PC board and electrical component applications
- Designed according to RAST 2.5 Standard
- 2.5 mm Centerline
- Openings in cover for electrical tests
- Excellent contact protection
- Keyable female connector
- Chainable products for optimal handling in logistics and manufacturing
- Special Version  
Optional internal locking for secure retention to PC board without use of frame

 -Approval-No.  
40003624  
Reg.-No.  
1702000-1431-0046/17189

- UL recognised under File No. E 28476

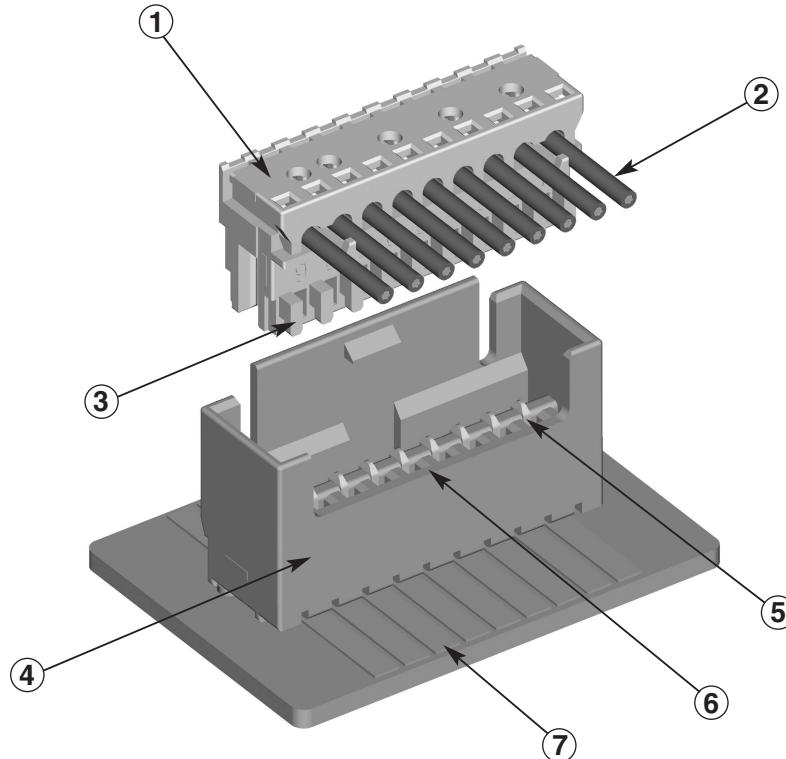
## Technical Features



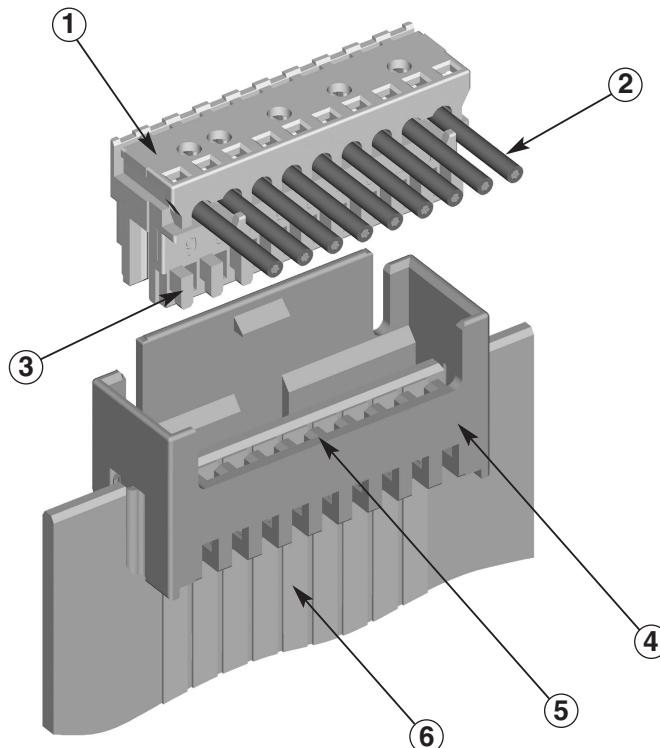
- 1 Twisted contact provides high contact force without excessive mating force.
- 2 Very good contact protection eliminates stubbing problems.
- 3 Wires are terminated via metal stuffer in tooling which ensures proper positioning of the wire in the IDC slot of contact.
- 4 Contacts are suitable for 7-stranded and multi-stranded wire.
- 5 Cover provides contact protection.
- 6 Cutting of the keying ribs, in accordance to customers demand, is done during the termination process.
- 7 Openings in cover for electrical inspection.
- 8 Optional colour marking can be done during the termination process.

**Indirect and Direct Connection, 2.5 mm Centerline****Indirect Connection,  
2.5 mm Centerline**

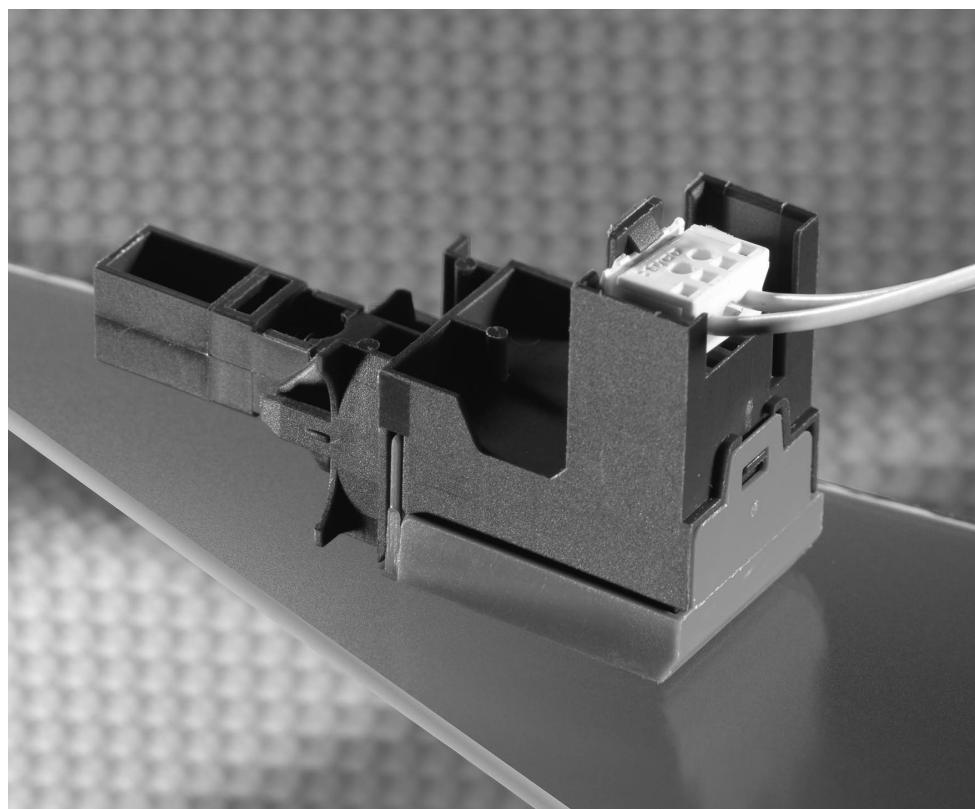
- 1 Cover
- 2 Wire
- 3 Keying Ribs
- 4 Tab Header
- 5 Tab Contact (1.5 x 0.6 mm)
- 6 Keying
- 7 PC Board

**Direct Connection,  
2.5 mm Centerline**

- 1 Cover
- 2 Wire
- 3 Keying Ribs
- 4 PC Board Frame
- 5 Keying
- 6 PC Board



## Technical Data



1

Part 2.5

**No. of Positions:** 3- to 20-positions  
**Centerline:** 2.5 mm, adjacent with loss of pitch  
**Housing Material:** PA 6 GF (Polyamide)  
**Flammability Rating:** UL 94 V-2  
**Track Resistance:** PTI 250  
**Insulation Resistance:**  $>5\text{ m}\Omega$   
**Housing Colour:** natural  
**Colour Marking/Key Coding:** done by termination equipment  
**Contact Material:** Phosphor Bronze (CuSn)  
**Contact Finish:** tin plated

**Temperature Range:**  $-40\text{ }^{\circ}\text{C}$  up to  $+110\text{ }^{\circ}\text{C}$   
**Current Rating:** 2 A max.  
**Current Voltage:** 50 V fully loaded, 250 V selectively loaded  
**Air and Creepage Distance:** 1 mm fully loaded,  $>3.2$  mm selectively loaded  
**Mating Force per Contact on Steel Gauge:** 6 N max.  
**Unmating Force per Contact:** 0.7 N min.  
**Wire Size Range:** 0.22–0.35  $\text{mm}^2$  (AWG 24–22, AWM Style 1569/1007)  
**Composition of Conductors:** 7- and 12-stranded  
**Insulation Hardness:** Shore A 92  $\pm 3$

**Insulation Diameter:** 1.2–1.6 mm  
**PC Board Thickness:**  $1.5 \pm 0.14$  mm  
**Approval:**

- VDE-Approval-No. 40003624
- VDE-Reg.-No. 1702000-1431-0046/17189
- UL File E 28476

**Product Specification:** 108-18785  
**Packaging Specification:** 107-18068  
**Application Specification:** 114-18467

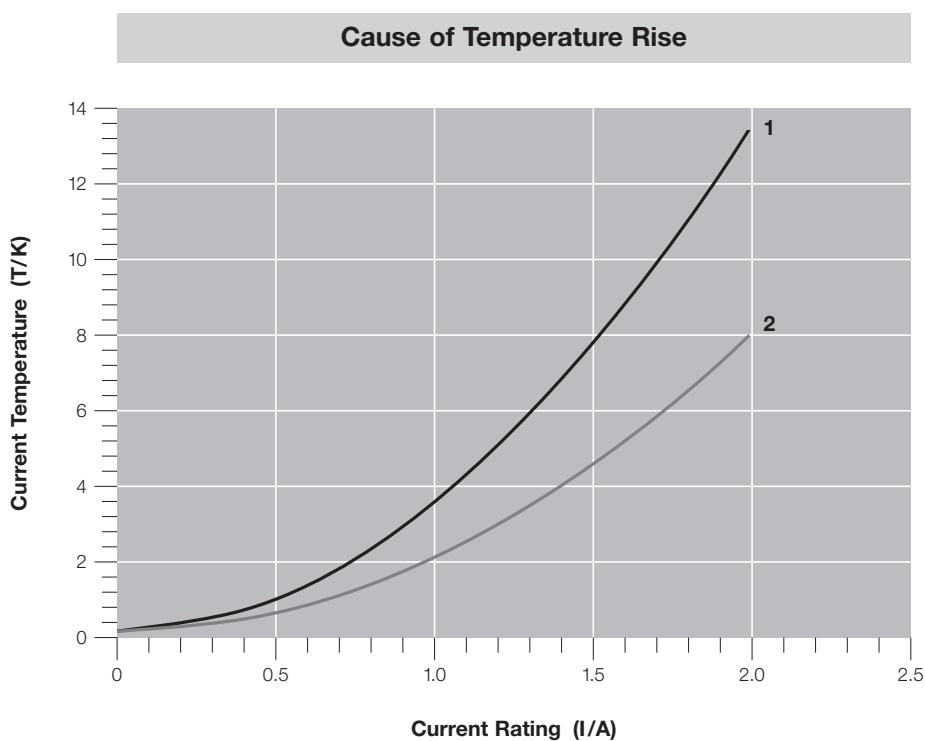
## Performance Diagrams

## Technical Data

■ Female Connector,  
20 Positions

Part-No. 3-1534797-0

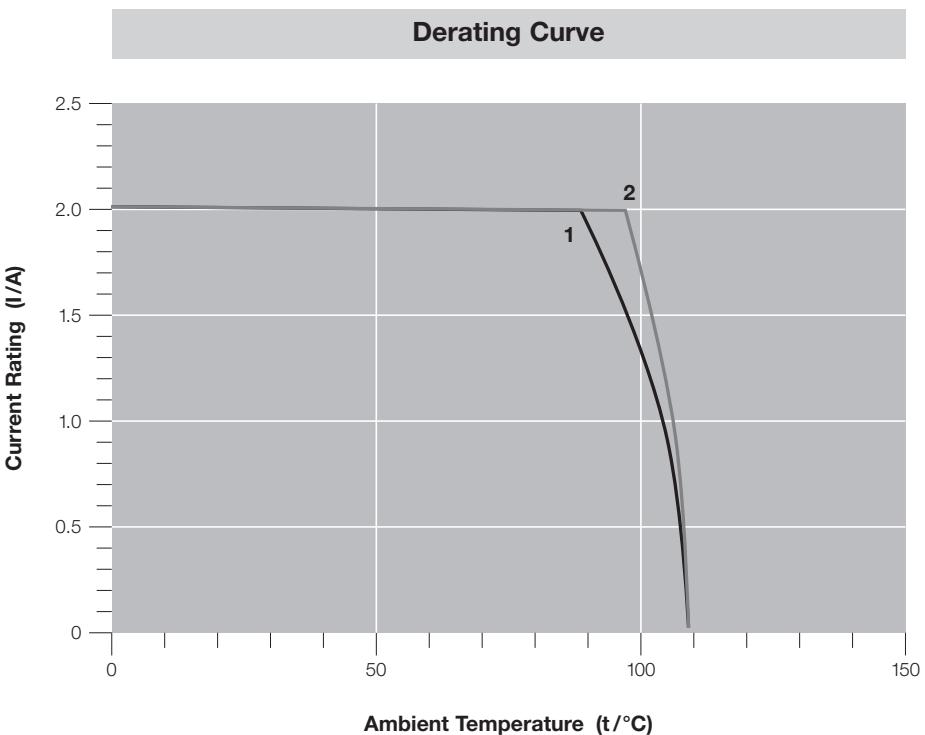
## ■ Material and Finish

**Housing Material:**  
PA 6 GF, acc. UL 94 V-2**Contact Material:**  
Phosphor Bronze (CuSn)**Contact Finish:**  
tin plated

## ■ Wire Range:

0.22 mm<sup>2</sup> (7-strands,  
tin plated)0.35 mm<sup>2</sup> (12-strands,  
tin plated)

## ■ Counter Part

**PC Board:**  
one side coated**Pad:**  
0.35 µm x 1.9 mm,  
Copper, HAL, tin plated

## ■ Measurement Construction:

(1): 0.22 mm<sup>2</sup>(2): 0.35 mm<sup>2</sup>

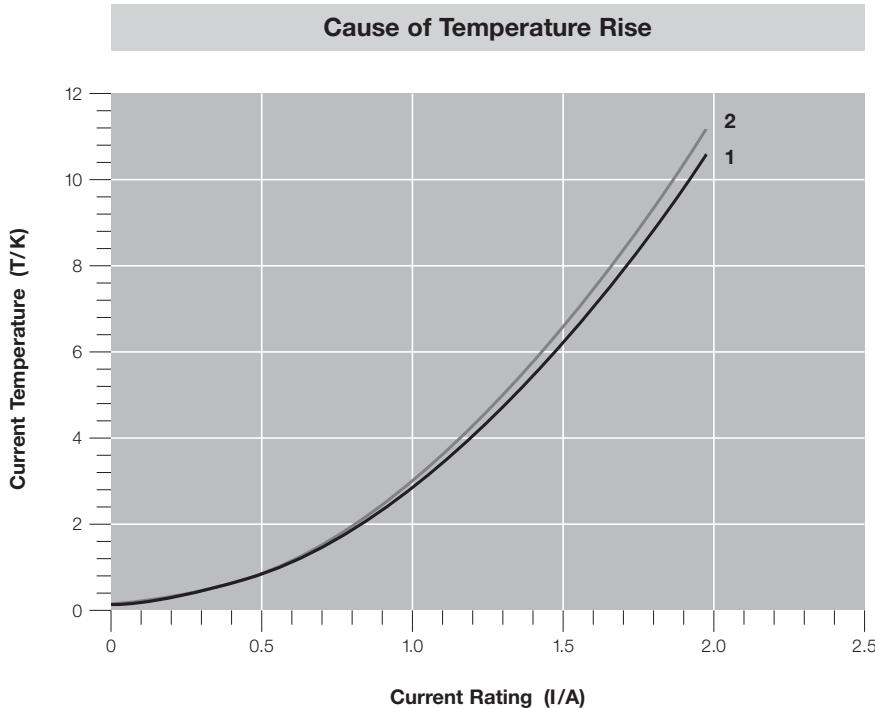
## Performance Diagrams (continued)

## Technical Data

■ Female Connector,  
20 Positions

Part-No. 3-1534797-0

## ■ Material and Finish

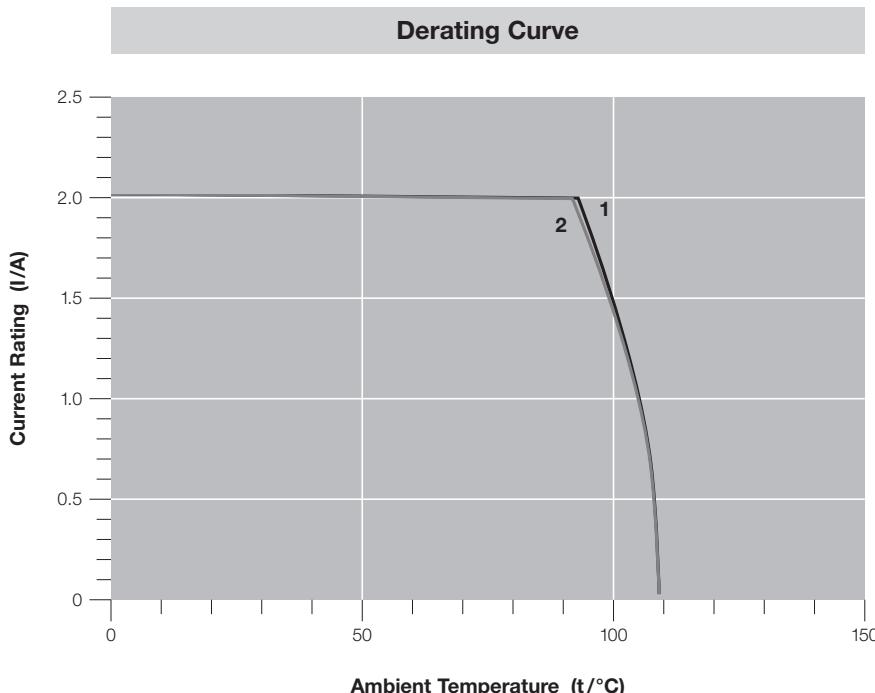
**Housing Material:**  
PA 6 GF, acc. UL 94 V-2**Contact Material:**  
Phosphor Bronze (CuSn)**Contact Finish:**  
tin plated

## ■ Wire Range:

0.22 mm<sup>2</sup> (7-strands,  
tin plated)  
0.35 mm<sup>2</sup> (12-strands,  
tin plated)

## ■ Counter Part

## Tab Header

**Housing:**  
PBT-GF, acc. UL 94 V-0**Pin:**  
1.5 x 0.6 mm,  
CuZn 30, tin plated

## ■ Measurement Construction:

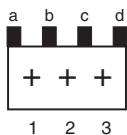
(1): 0.22 mm<sup>2</sup>  
(2): 0.35 mm<sup>2</sup>

## Keying Plan and Female Connector Geometry

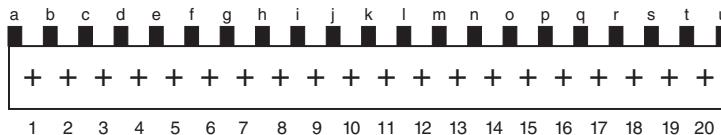
## Keying Plan

## Delivery Form

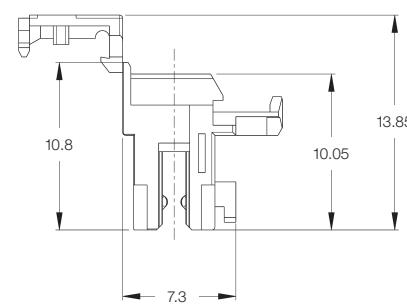
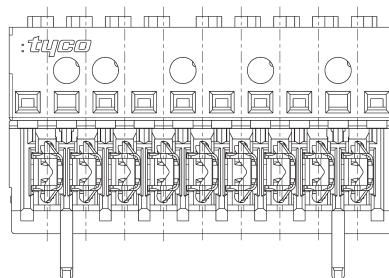
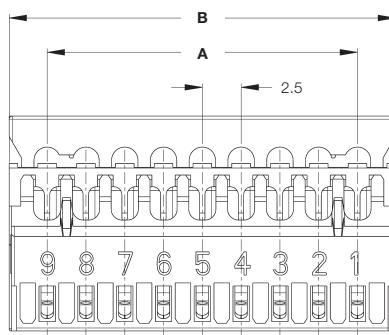
with all Keying Ribs →



No. of Pos. →

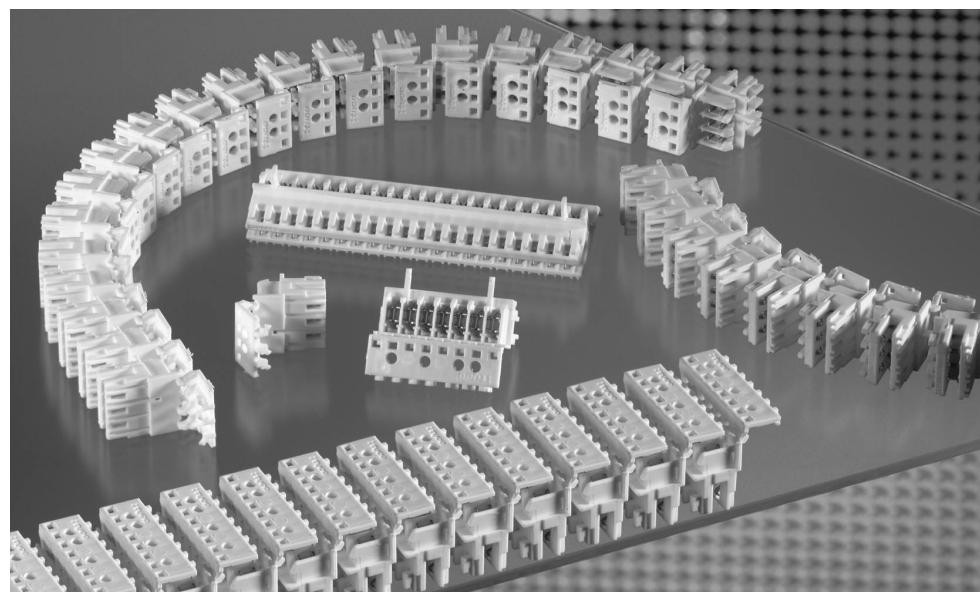


## Keying Example: 3/2 positions

Housing, →  
fully loadedHousing, →  
selectively loadedKeying is done by unit during  
application process.AMP DUOPLUG 2.5 Mark II  
Female Connector

AMP DUOPLUG 2.5 Mark II  
Female Connectors

## Female Connectors



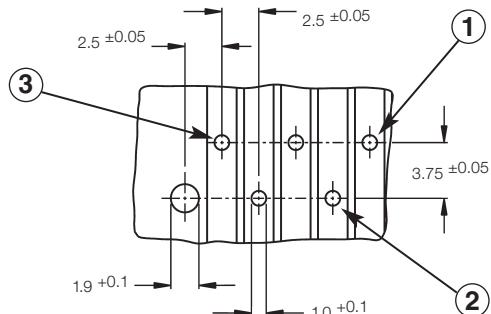
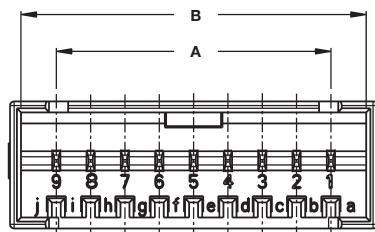
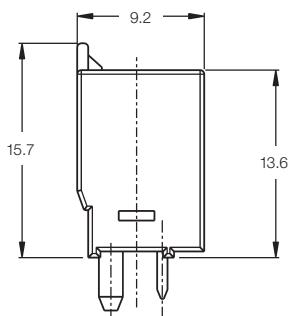
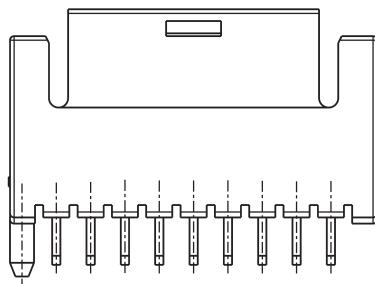
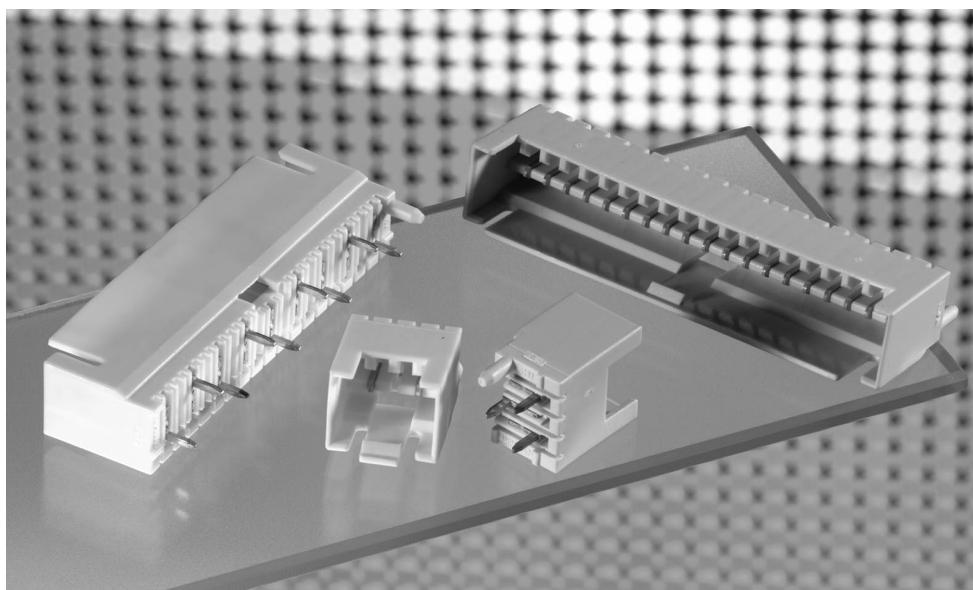
No. of Positions	Dimensions (mm)		Keying	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package Quantity
	A	B					
3	5.0	9.9	R2.5/1-3-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-3	15,400
4	7.5	12.4	R2.5/1-4-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-4	12,320
5	10.0	14.9	R2.5/1-5-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-5	10,472
6	12.5	17.4	R2.5/1-6-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-6	8,624
7	15.0	19.9	R2.5/1-7-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-7	7,392
8	17.5	22.4	R2.5/1-8-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-8	6,776
9	20.0	24.9	R2.5/1-9-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-9	6,160
10	22.5	27.4	R2.5/1-10-	PA 6 GF, V-2	CuSn, tin plated	3-1534796-0	5,544
11	25.0	29.9	R2.5/1-11-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-1	4,928
12	27.5	32.4	R2.5/1-12-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-2	
13	30.0	34.9	R2.5/1-13-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-3	4,312
14	32.5	37.4	R2.5/1-14-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-4	
15	35.0	39.9	R2.5/1-15-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-5	3,696
16	37.5	42.4	R2.5/1-16-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-6	
17	40.0	44.9	R2.5/1-17-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-7	
18	42.5	47.4	R2.5/1-18-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-8	3,080
19	45.0	49.9	R2.5/1-19-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-9	
20	47.5	52.4	R2.5/1-20-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-0	

No. of Positions	Dimensions (mm)		Selectively Loaded	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package Quantity
	A	B					
3	5.0	9.9	R2.5/2-2-	PA 6 GF, V-2	CuSn, tin plated	3-1534798-3	15,400
5	10.0	14.9	R2.5/2-3-	PA 6 GF, V-2	CuSn, tin plated	3-1534798-5	10,472
7	15.0	19.9	R2.5/2-4-	PA 6 GF, V-2	CuSn, tin plated	3-1534798-7	7,392
11	25.0	29.9	R2.5/2-6-	PA 6 GF, V-2	CuSn, tin plated	3-1534799-1	4,928

\*) According to IEC 60695-2-1/1; GWT (Glow Wire Test) 750 °C without flame, look VDE M-Test Report.

**Note:** Additional variants on request.

The connector keying and colour marking is done with the units on the workstation.

**Tab Headers 180°****AMP DUOPLUG 2.5 Mark II**  
Tab Header 180°**PC Board Layout**  
for AMP DUOPLUG 2.5 Tab  
Header, Loaded with  
Contacts, 2.5 mm Centerline

Solder Side View.

- 1 First uneven Cavity
- 2 First even Cavity
- 3 Last Cavity

## Tab Headers 180° (continued)

1  
Part 2.5

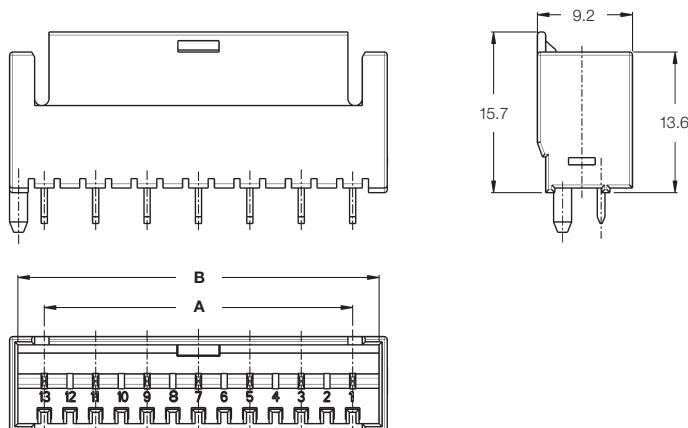
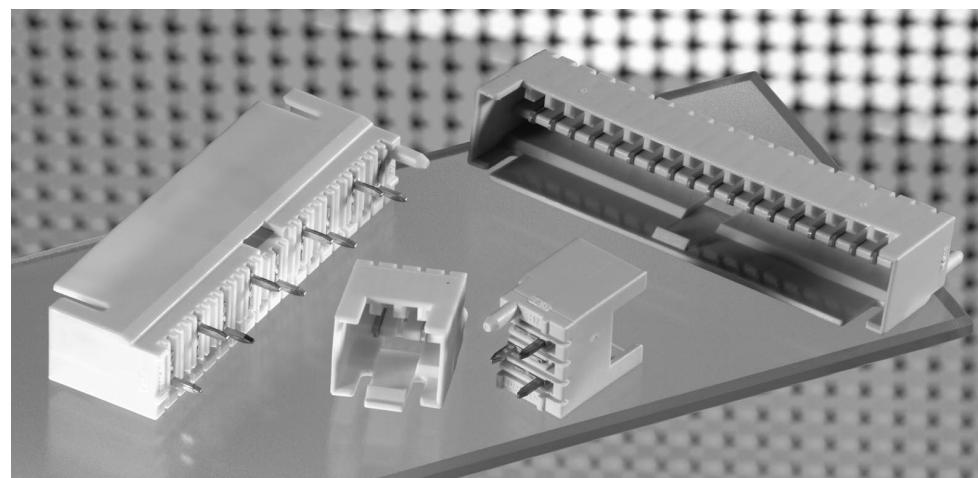
No. of Positions	Dimensions (mm)		Housing Material	Housing Colour	Keying	Part Number	Package Quantity
	A	B				Tab Header	
3	5.0	10.15	PBT-GF, V-0	natural	–	1-829866-3	
				grey	–	<b>2-829866-3</b>	416
				grey	b	3-829866-3	
4	7.5	12.65	PBT-GF, V-0	natural	–	1-829866-4	
				grey	–	<b>2-829866-4</b>	352
5	10.0	15.15	PBT-GF, V-0	natural	d	1-829866-5	
				grey	e	<b>2-829966-5</b>	300
				grey	–	3-829866-5	
				grey	–	4-829866-5	
6	12.5	17.65	PBT-GF, V-0	natural	–	1-829866-6	
				grey	–	<b>2-829966-6</b>	256
7	15.0	20.15	PBT-GF, V-0	natural	–	1-829866-7	
				grey	–	<b>2-829966-7</b>	224
				grey	d	3-829866-7	
8	17.5	22.65	PBT-GF, V-0	natural	–	1-829866-8	
				grey	–	<b>2-829966-8</b>	196
9	20.0	25.15	PBT-GF, V-0	natural	–	1-829866-9	
				grey	–	<b>2-829966-9</b>	180
10	22.5	27.65	PBT-GF, V-0	natural	–	1-829866-0	
				grey	–	<b>2-829966-0</b>	168
11	25.0	30.15	PBT-GF, V-0	natural	–	1-829867-1	
				grey	–	<b>2-829867-1</b>	150
12	27.5	32.65	PBT-GF, V-0	natural	–	1-829867-2	
				grey	–	<b>2-829867-2</b>	140
13	30.0	32.15	PBT-GF, V-0	natural	–	1-829867-3	
				grey	–	<b>2-829867-3</b>	140
14	32.5	37.65	PBT-GF, V-0	natural	–	1-829867-4	
				grey	–	<b>2-829867-4</b>	128
15	35.0	40.15	PBT-GF, V-0	natural	–	1-829867-5	
				grey	–	<b>2-829867-5</b>	120
16	37.5	42.65	PBT-GF, V-0	natural	–	1-829867-6	
				grey	–	<b>2-829867-6</b>	112
17	40.0	45.15	PBT-GF, V-0	natural	–	1-829867-7	
				grey	–	<b>2-829867-7</b>	104
18	42.5	47.65	PBT-GF, V-0	natural	–	1-829867-8	
				grey	–	<b>2-829867-8</b>	102
19	45.0	50.15	PBT-GF, V-0	natural	–	1-829867-9	
				grey	–	<b>2-829867-9</b>	96
20	47.5	52.65	PBT-GF, V-0	natural	–	1-829867-0	
				grey	–	<b>2-829867-0</b>	90

Preferred Types are printed bold.

Note: Additional keying variants available on request

**Tab Header 180° for  
Use with Selectively  
Loaded AMP DUOPLUG 2.5  
Mark II Housings**

**Tab Headers 180° - Selectively Loaded**



**PC Board Layout**

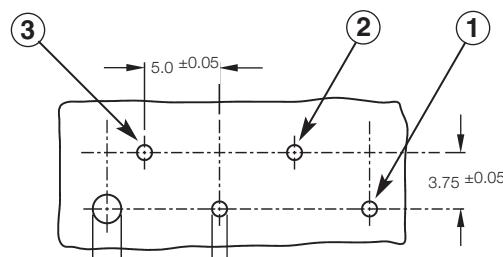
for AMP DUOPLUG 2.5 Tab  
Header, Loaded with Contacts,  
5.0 mm Centerline

Solder Side View.

1 First uneven Cavity

2 First even Cavity

3 Last Cavity

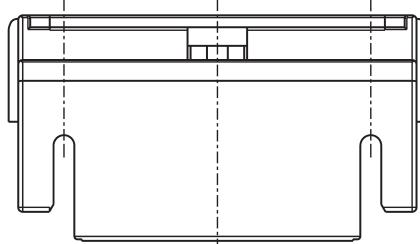
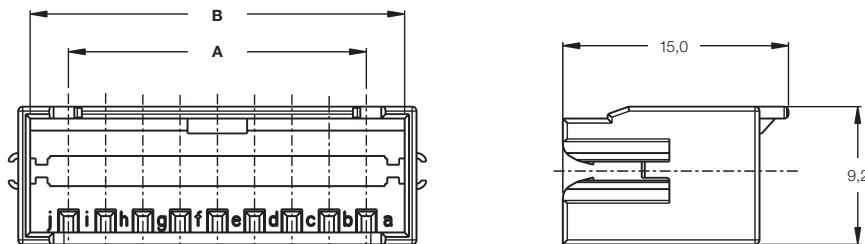
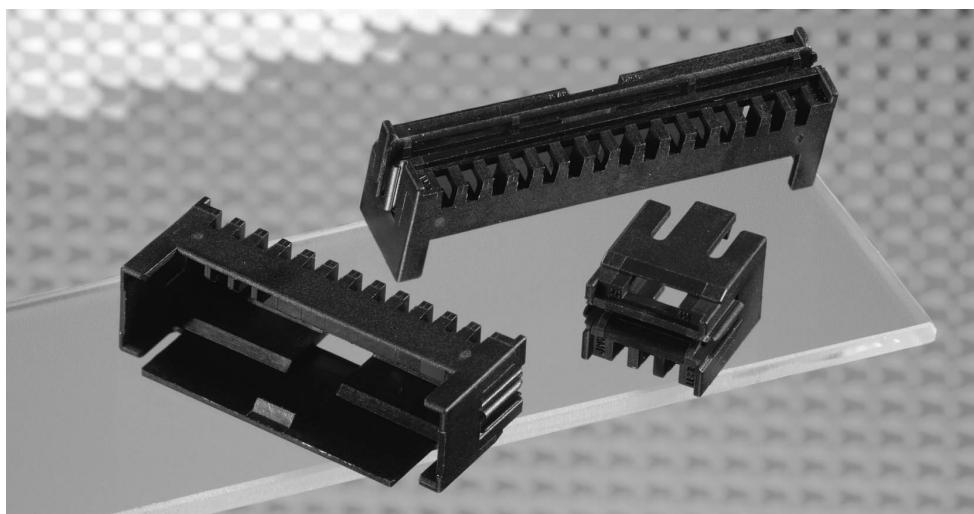


No. of Positions	Dimensions (mm)		Tab Header Selectively Loaded	Housing Material Housing Colour: Grey	Part Number	Package Quantity
	A	B				
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	224
9	20.0	25.15	R2.5/5-2-	PBT-GF, V-0	1-1534787-9	180
11	25.0	30.15	R2.5/6-2-	PBT-GF, V-0	1-1534788-1	150
13	30.0	35.15	R2.5/7-2-	PBT-GF, V-0	1-1534788-3	140
15	35.0	40.15	R2.5/8-2-	PBT-GF, V-0	1-1534788-5	120
17	40.0	45.15	R2.5/9-2-	PBT-GF, V-0	1-1534788-7	104

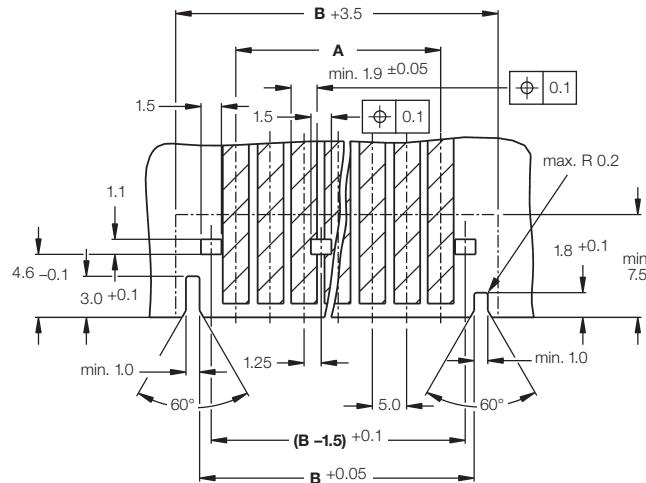
**Note:** Additional keying variants available on request.

## PC Board Frame

## PC Board Frame



## PC Board Layout



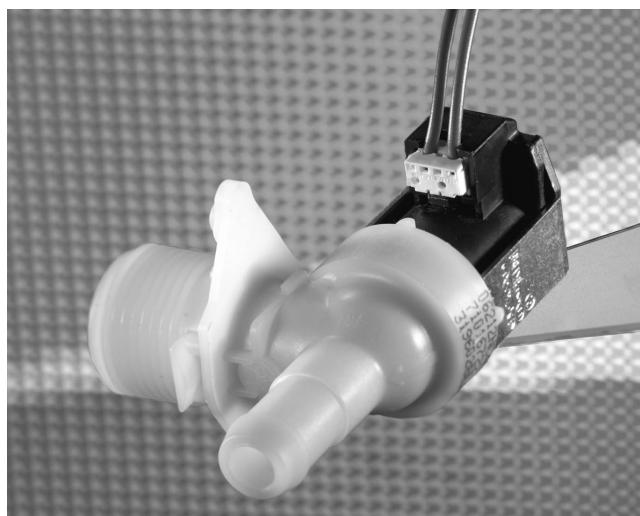
## PC Board Frame (continued)

No. of Positions	Dimensions (mm)		Housing Material	Housing Colour	Keying	Part Number
	A	B				Tab Header
3	5.0	10.1	PA 6.6 GF, V-0	black	–	<b>1-964575-3</b>
				black	–	<b>1-964575-4</b>
4	7.5	12.6	PA 6.6 GF, V-0	black	b	2-964575-4
				black	c	3-964575-4
				black	d	4-964575-4
				black	–	<b>1-964575-5</b>
5	10.0	15.1	PA 6.6 GF, V-0	black	d	2-964575-5
				black	b, e	3-964575-5
				black	–	<b>1-964575-6</b>
6	12.5	17.6	PA 6.6 GF, V-0	black	d, f	2-964575-6
				black	d, e	3-964575-6
				black	–	<b>1-964575-7</b>
7	15.0	20.1	PA 6.6 GF, V-0	black	d	2-964575-7
				black	b, e, g	3-964575-7
				natural	b, e, g	4-964575-7
8	17.5	22.6	PA 6.6 GF, V-0	black	–	<b>1-964575-8</b>
				black	b, c, d, h	2-964575-8
9	20.0	25.1	PA 6.6 GF, V-0	black	–	<b>1-964575-9</b>
				black	c, d, i	2-964575-9
10	22.5	27.6	PA 6.6 GF, V-0	black	–	<b>1-964575-0</b>
				black	a, b, c, e, h, i, k	3-964575-0
11	25.0	30.1	PA 6.6 GF, V-0	black	–	<b>1-964576-1</b>
				black	b, c, e, g	2-964576-1
12	27.5	32.6	PA 6.6 GF, V-0	black	–	<b>1-964576-2</b>
				black	k	2-964576-2
13	30.0	32.6	PA 6.6 GF, V-0	natural	k	3-964576-2
				black	f, g, h, i, j, k, l	4-964576-2
				natural	c, d, e, i, j, k, l	5-964576-2
				natural	–	6-964576-2
15	35.0	40.1	PA 6.6 GF, V-0	black	a, d, g, i, j, n, o, p	<b>2-964576-5</b>
17	30.0	45.1	PA 6.6 GF, V-0	black	d, r	<b>2-964576-7</b>

Preferred Types are printed **bold**.

Note: Additional keying variants available on request

## Introduction



### Applications

- Household Appliances
- Small Appliances
- Components
- Gambling Machines
- Heating

The AMP DUOPLUG Power is a new economical IDC Connector System for safe and fast production of electrical connections.

The design is based on the RAST 2.5 Standard as a direct and indirect connecting system for PC board and component applications.

The female connectors fit in existing RAST 2.5 headers and frames.

The twisted contact, the design of the contact zone

and the two IDC slots ensure safe functioning and a current rating up to 6 A.

The 7-stranded and multi-stranded conductors are suitable for a wire range of 0.35 mm<sup>2</sup> up to 0.5 mm<sup>2</sup> (AWG 22 up to AWG 20, AWM Style 1569/1007).

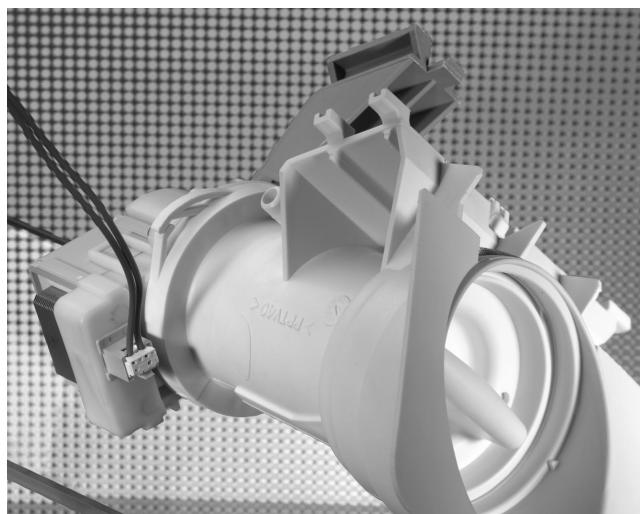
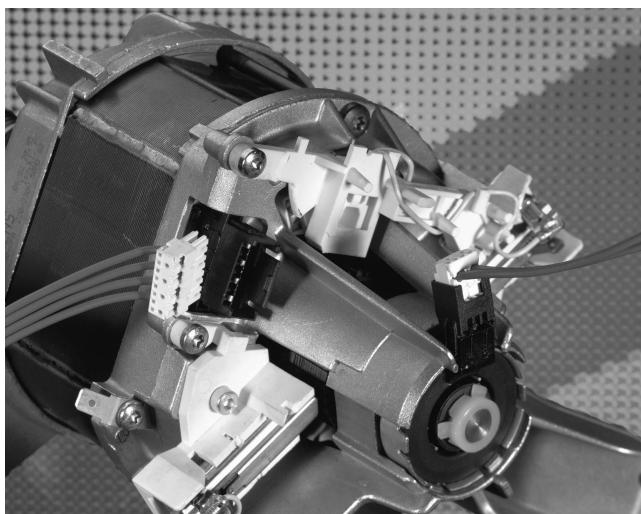
The cover provides very good contact protection and has openings for easy electrical inspection.

We offer a complete range of termination equipment from the hand tool to the

modular fully-automatic IHM Mark III machine.

The connector keying and colour marking is done with units on the workstation.

AMP DUOPLUG Power and AMP DUOPLUG 2.5 Mark II IDC connector systems are able to be processed with minimal set up time on the same workstation.



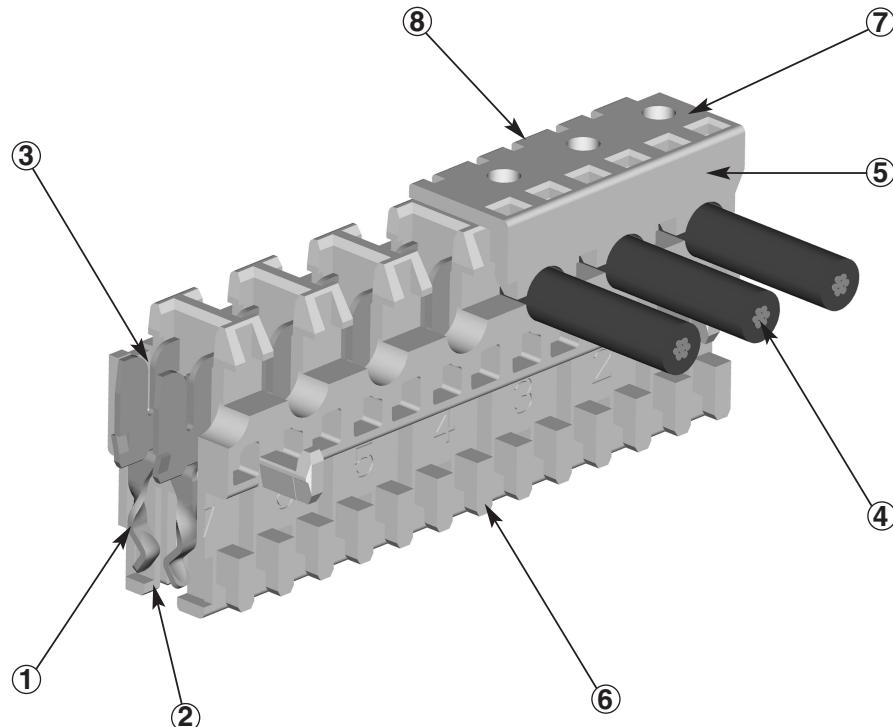
## Technical Features

## Product Features

- IDC connector system for harness production
- For PC board and electrical component application
- Designed according to RAST 2.5 Standard
- Low housing height
- 5.0 mm Centerline
- Excellent contact protection
- Keyable female part
- Chainable products for optimal handling in logistics and manufacturing
- Special Version  
Optional internal locking for secure retention to PC board without use of frame

 -Approval-No.  
40003581  
Reg.-No.  
1702000-1431-0045/11473

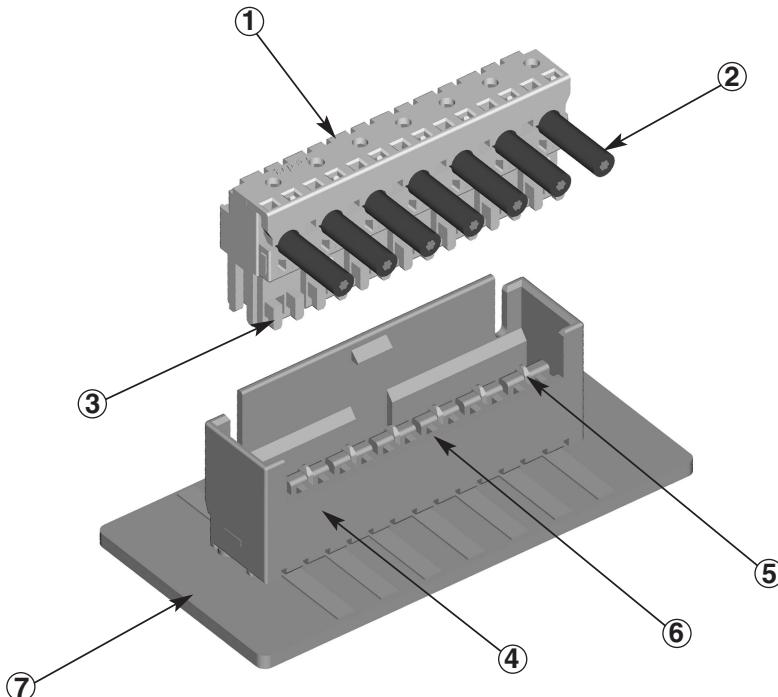
- UL recognised under  
File No. E 28476



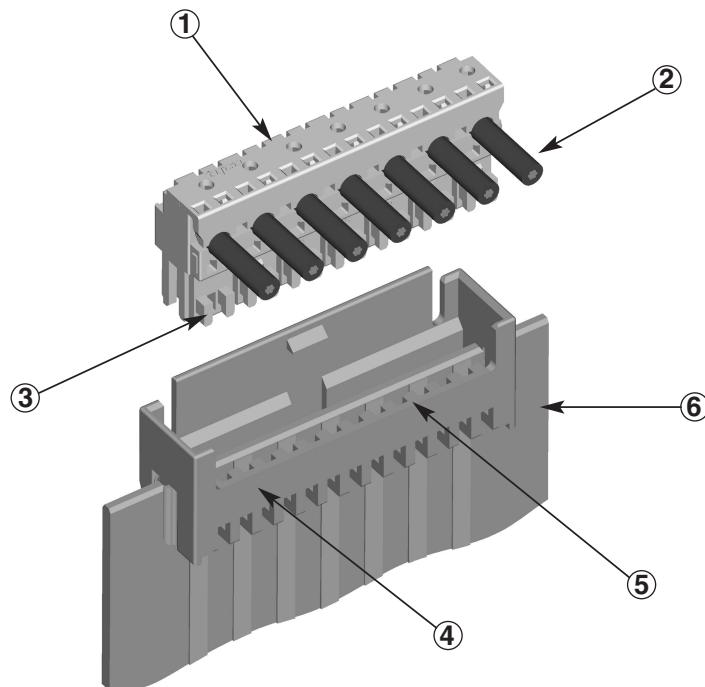
- |  |  |   |
|--|--|---|
| 1 Twisted contact provides high contact force without excessive mating force.  | 4 Contacts are suitable for 7-stranded and multi-stranded wire.  | 7 Openings in cover for electrical inspection.                        |
| 2 Very good contact protection eliminates stubbing problems.   | 5 Cover provides contact protection.   | 8 Optional colour marking can be done during the termination process. |
| 3 Wires are terminated via metal stuffer in tooling which ensures proper positioning of the wire in the IDC slot of contact. | 6 Cutting of the keying ribs, in accordance to customers demand, is done during the termination process. |   |

**Indirect Connection,  
5.0 mm Centerline**

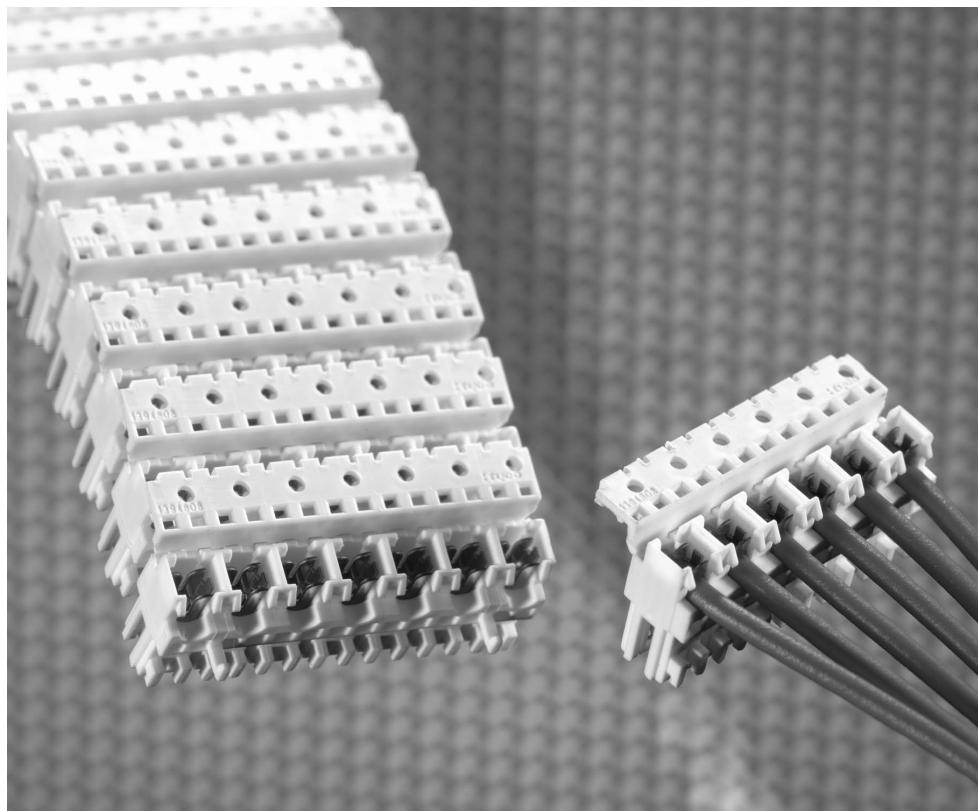
- 1 Cover
- 2 Wire
- 3 Keying Ribs
- 4 Tab Header
- 5 Tab Contact (1.5 x 0.6 mm)
- 6 Keying
- 7 PC Board

**Direct Connection,  
5.0 mm Centerline**

- 1 Cover
- 2 Wire
- 3 Keying Ribs
- 4 PC Board Frame
- 5 Keying
- 6 PC Board



## Technical Data



**No. of Positions:**  
2- to 9-positions

**Centerline:**  
5.0 mm, adjacent

**Housing Material:**  
PA 6.6 and PA 6 (Polyamide)

**Flammability Rating:**  
UL 94 V-0 and UL 94 V-2

**Track Resistance:**  
PTI 250

**Insulation Resistance:**  
>5 mΩ

**Housing Colour:**  
pale grey, natural

**Colour Marking/Key Coding:**  
done by termination equipment

**Contact Material:**  
CuNiSi

**Contact Finish:**  
tin plated

**Temperature Range:**  
-40 °C to +110 °C

**Current Rating:**  
6 A max.

**Rated Voltage:**  
250 V

**Air and Creepage Distance:**  
≥3.2 mm

**Mating Force per Contact  
on Steel Gauge:**  
6 N max.

**Unmating Force per Contact:**  
0.7 N min.

**Wire Size Range:**  
0.35–0.5 mm<sup>2</sup> (AWG 22–20,  
AWM Style 1569/1007)

**Composition of Conductors:**  
7-stranded and fine stranded

**Insulation Hardness:**  
Shore A 92 ±3

**Insulation Diameter:**  
1.2–2.4 mm

**PC Board Thickness:**  
1.5 ±0.14 mm

**Approval:**

- VDE-Approval-No. 40003581
- VDE-Reg.-No.  
1702000-1431-0045/11473,
- UL File E 28476

**Product Specification:**  
108-18780

**Packaging Specification:**  
107-18068

**Application Specification:**  
114-18458

## Technical Data

■ **Female Connector, 9 Positions**  
Part-No. 394918-9

■ **Material and Finish**

**Housing Material:**  
PA 6.6, acc. UL 94 V-0 and  
PA 6, acc. UL 94 V-2

**Contact Material:**  
CuNiSi

**Contact Finish:**  
tin plated

■ **Wire Range:**  
0.5 mm<sup>2</sup>, 16-strands

■ **Counter Part**

**PC Board:**  
Single side and double side  
coated

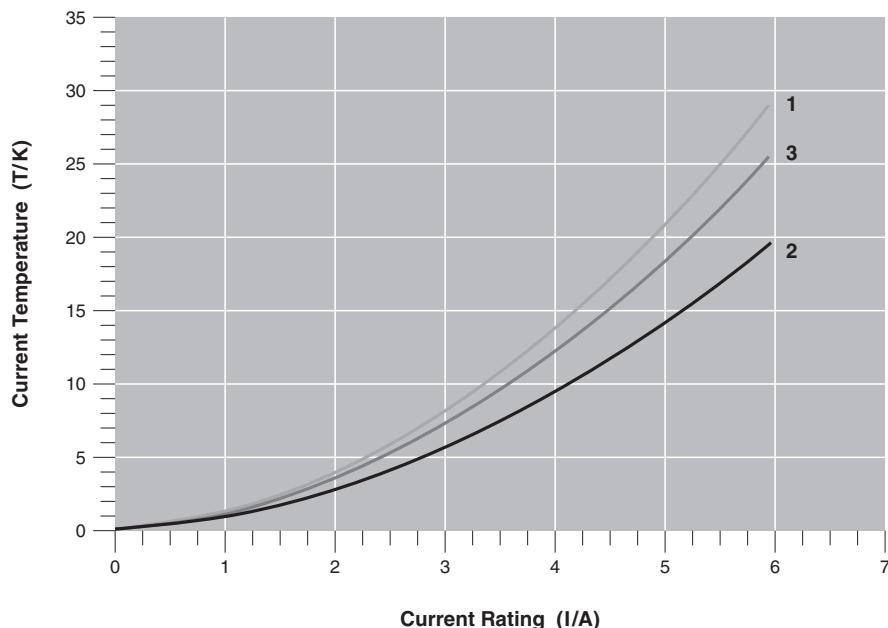
**Pad:**  
0.35 µm x 1.9 mm,  
Copper, HAL, tin plated

**Tab Header:**  
Pin 1.5 x 0.6 mm,  
CuZn 30, tin plated

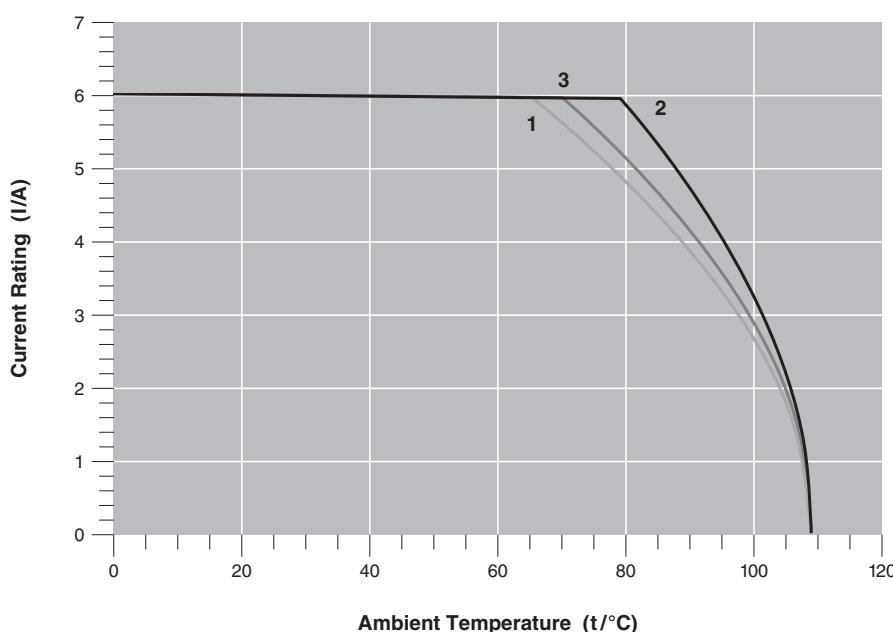
■ **Measurement:**  
(1): CEM1, single side  
coated  
(2): FR4, double side coated  
(3): PBT-GF, Tab Header

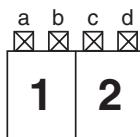
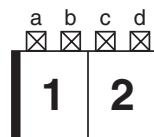
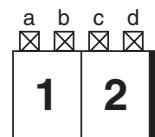
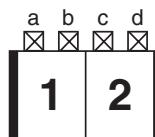
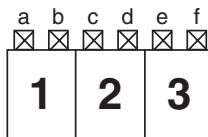
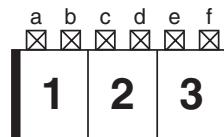
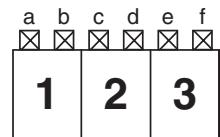
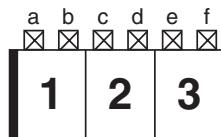
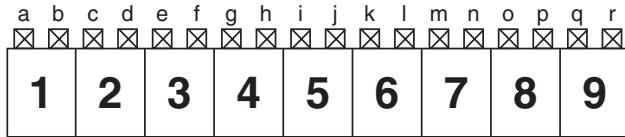
## Performance Diagrams

Cause of Temperature Rise

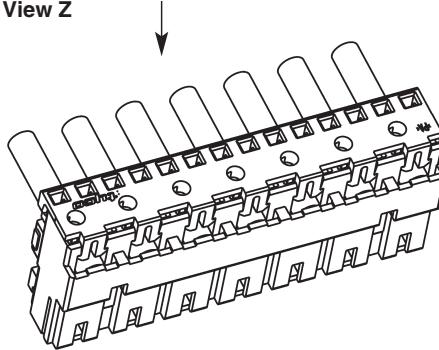
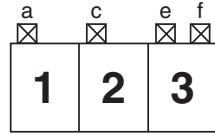
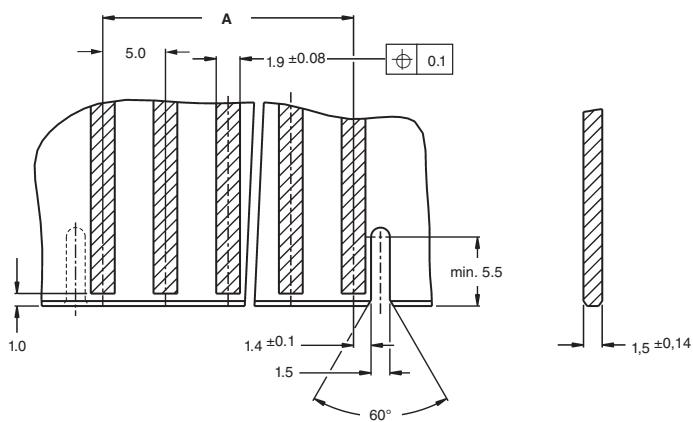


Derating Curve



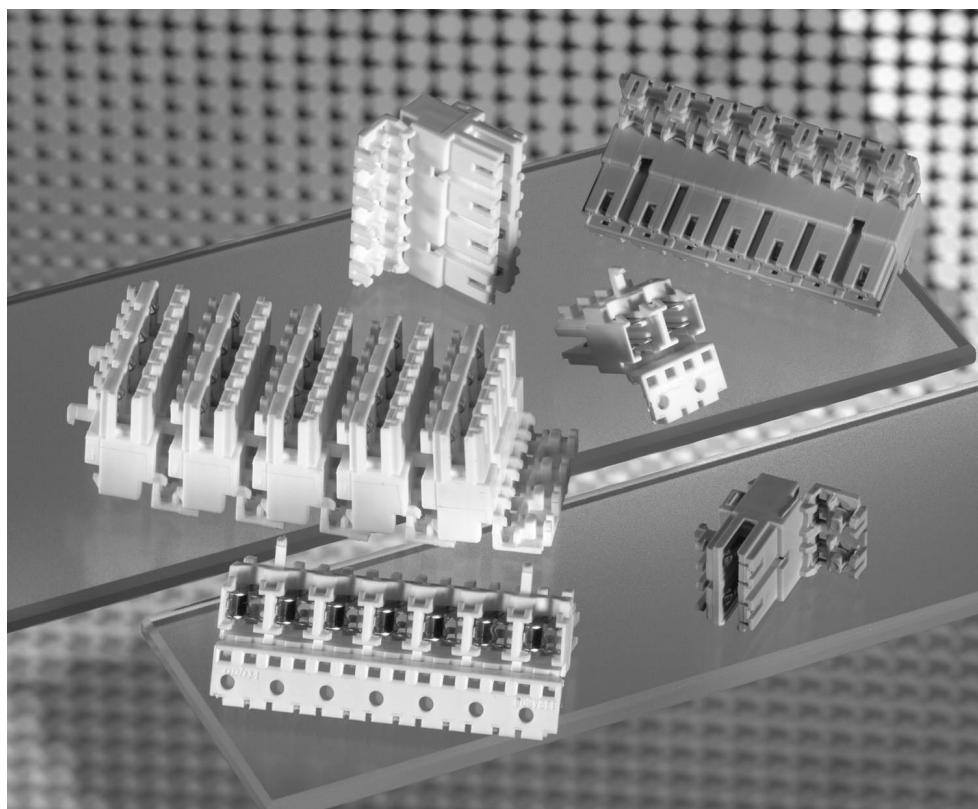
**Keying Plan**1394918-2  
1534415-21-1394918-2  
1-1534415-22-1394918-2  
2-1534415-23-1394918-2  
3-1534415-21394918-3  
1534415-31-1394918-3  
1-1534415-32-1394918-3  
2-1534415-33-1394918-3  
3-1534415-31394918-9  
1534415-9

View Z

**Possible Keying**  
Example R2.5 / P-3b,d1394918-3  
1534415-3Keying is done with units during  
application process.**PC Board Layout****PC Board Layout keyed,**  
Connected only with Additional  
Guide Frame

AMP DUOPLUG Power  
Female Connectors

## Female Connectors

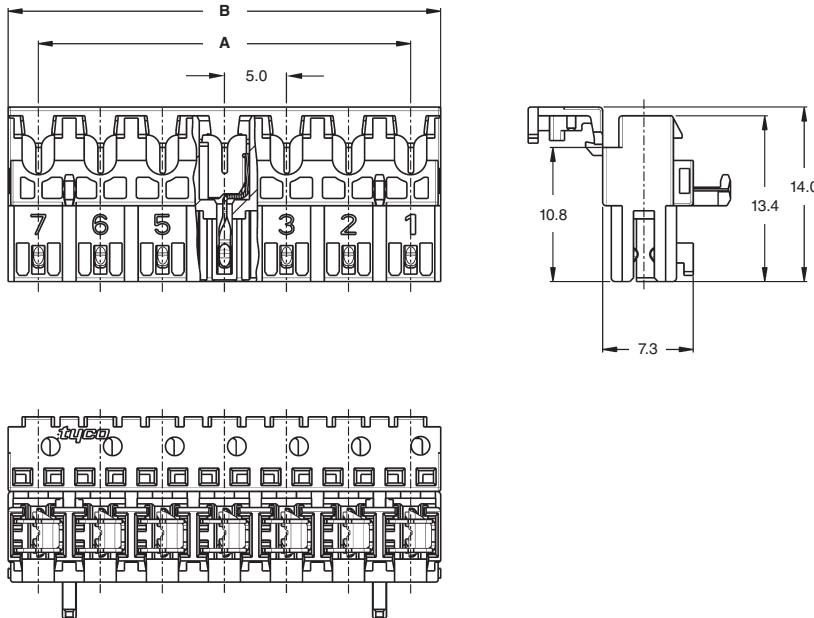


No. of Positions	Dimensions (mm)		Keying	Housing Material Housing Colour: Pale Grey	Contact Material Contact Finish	Part Number	Package Quantity
	A	B					
2	5.0	9.9	R2.5 / P-2-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-2	
			R2.5 / PL-2-	PA 6.6 V-0	CuNiSi, tin plated	1-1394918-2	
			R2.5 / PR-2-	PA 6.6 V-0	CuNiSi, tin plated	2-1394918-2	15,400
			R2.5 / PRL-2-	PA 6.6 V-0	CuNiSi, tin plated	3-1394918-2	
3	10.0	14.9	R2.5 / P-3-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-3	
			R2.5 / PL-3-	PA 6.6 V-0	CuNiSi, tin plated	1-1394918-3	
			R2.5 / PR-3-	PA 6.6 V-0	CuNiSi, tin plated	2-1394918-3	10,472
			R2.5 / PRL-3-	PA 6.6 V-0	CuNiSi, tin plated	3-1394918-3	
4	15.0	19.9	R2.5 / P-4-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-4	7,392
5	20.0	24.9	R2.5 / P-5-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-5	6,160
6	25.0	29.9	R2.5 / P-6-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-6	4,928
7	30.0	34.9	R2.5 / P-7-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-7	4,312
8	35.0	39.9	R2.5 / P-8-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-8	3,696
9	40.0	44.9	R2.5 / P-9-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-9	3,080

**Note:** Additional variants on request.

The connector keying and colour marking is done with the units on the workstation.

## Female Connectors (continued)

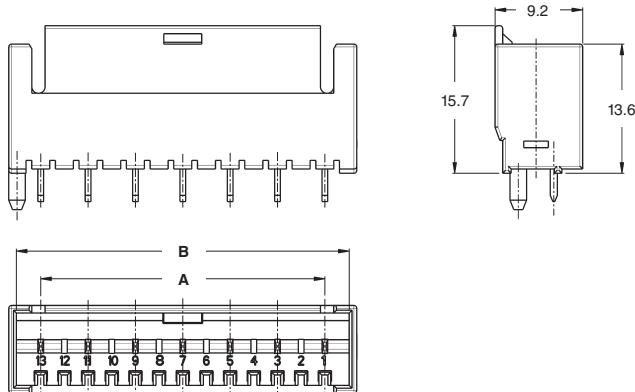
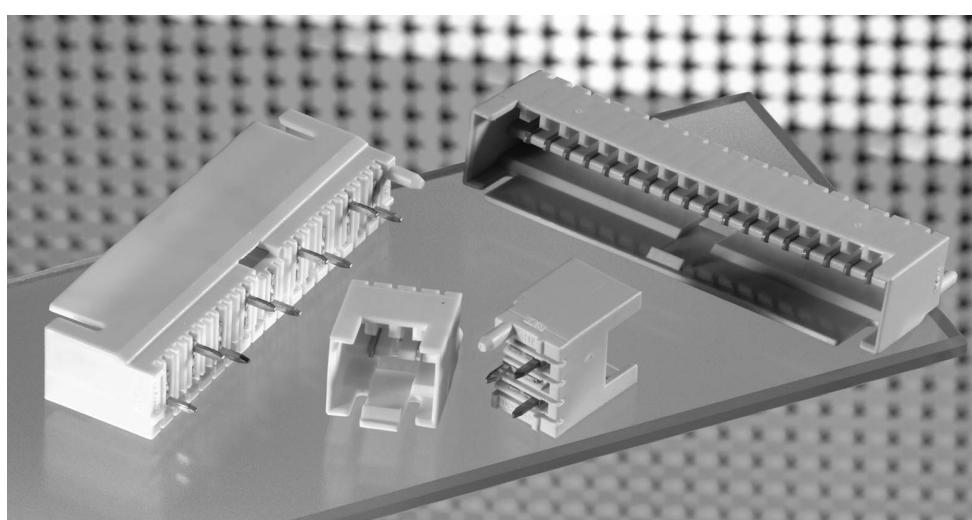
AMP DUOPLUG Power  
Female Connectors  
(continued)

No. of Positions	Dimensions (mm)		Selectively Loaded Keying	Housing Material: GWT, 750 °C * Housing Colour: Natural	Contact Material Contact Finish	Part Number	Package Quantity
	A	B					
2	5.0	9.9	R2.5 / P-2-	PA 6 V-2	CuNiSi, tin plated	0-1534415-2	15,400
			R2.5 / PL-2-	PA 6 V-2	CuNiSi, tin plated	1-1534415-2	
			R2.5 / PR-2-	PA 6 V-2	CuNiSi, tin plated	2-1534415-2	
			R2.5 / PRL-2-	PA 6 V-2	CuNiSi, tin plated	3-1534415-2	
3	10.0	14.9	R2.5 / P-3-	PA 6 V-2	CuNiSi, tin plated	0-1534415-3	10,472
			R2.5 / PL-3-	PA 6 V-2	CuNiSi, tin plated	1-1534415-3	
			R2.5 / PR-3-	PA 6 V-2	CuNiSi, tin plated	2-1534415-3	
			R2.5 / PRL-3-	PA 6 V-2	CuNiSi, tin plated	3-1534415-3	
4	15.0	19.9	R2.5 / P-4-	PA 6 V-2	CuNiSi, tin plated	0-1534415-4	7,392
5	20.0	24.9	R2.5 / P-5-	PA 6 V-2	CuNiSi, tin plated	0-1534415-5	6,160
6	25.0	29.9	R2.5 / P-6-	PA 6 V-2	CuNiSi, tin plated	0-1534415-6	4,928
7	30.0	34.9	R2.5 / P-7-	PA 6 V-2	CuNiSi, tin plated	0-1534415-7	4,312
8	35.0	39.9	R2.5 / P-8-	PA 6 V-2	CuNiSi, tin plated	0-1534415-8	3,696
9	40.0	44.9	R2.5 / P-9-	PA 6 V-2	CuNiSi, tin plated	0-1534415-9	3,080

\*) According IEC 60695-2-1/1; GWT (Glow Wire Test) 750 °C without flame, look VDE M-Test Report.

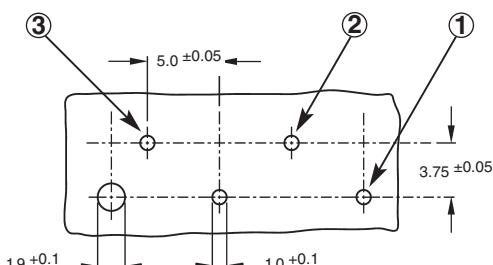
**Note:** Additional variants on request.

The connector keying and colour marking is done with the units on the workstation.

Tab Header 180° for Use  
with AMP DUOPLUG PowerPC Board Layout  
for AMP DUOPLUG 2.5  
Tab Header,  
Loaded with Contacts,  
5.0 mm Centerline

Solder Side View.

- 1 First uneven Cavity
- 2 First even Cavity
- 3 Last Cavity

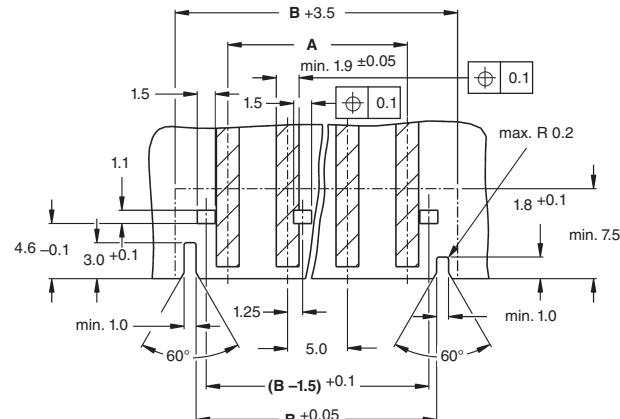
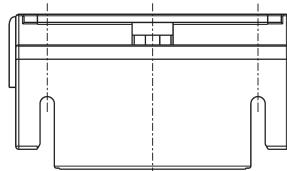
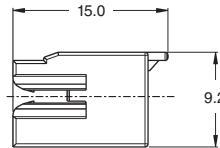
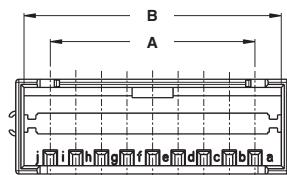
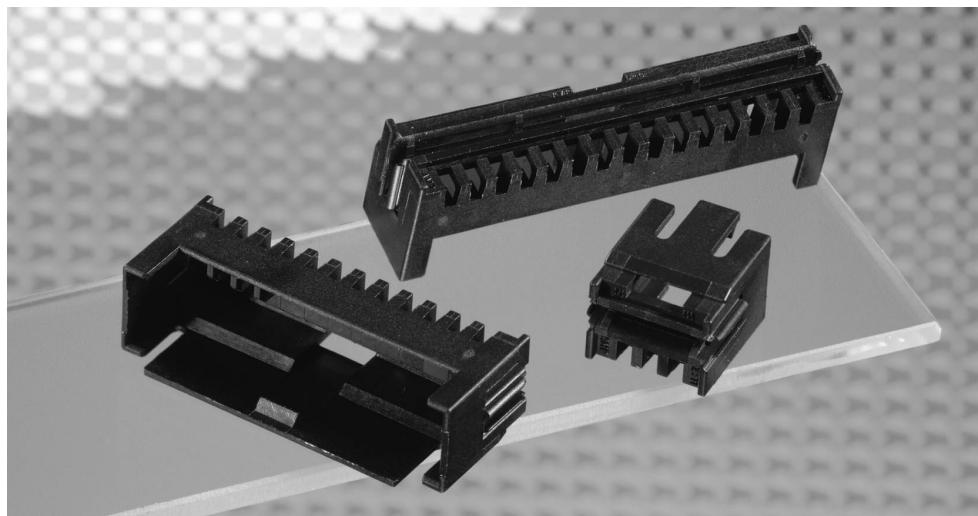


No. of Positions	Dimensions (mm)		Tab Header Selectively Loaded	Housing Material	Part Number	Package Quantity
	A	B				
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	224
9	20.0	25.15	R2.5/5-2-	PBT-GF, V-0	1-1534787-9	180
11	25.0	30.15	R2.5/6-2-	PBT-GF, V-0	1-1534788-1	150
13	30.0	35.15	R2.5/7-2-	PBT-GF, V-0	1-1534788-3	140
15	35.0	40.15	R2.5/8-2-	PBT-GF, V-0	1-1534788-5	120
17	40.0	45.15	R2.5/9-2-	PBT-GF, V-0	1-1534788-7	104

Note: Additional keying variants available on request.

## PC Board Frame

PC Board Frame for Use  
with AMP DUOPLUG Power



PC Board Layout

No. of Positions	Dimensions (mm)		Housing Material: PA 6.6 GF, V-0	Keying	Part Number
	A	B			
3	5.0	10.1	black	–	1-964575-3
			black	–	1-964575-5
5	10.0	15.1	black	d	2-964575-5
			black	b, e	3-964575-5
7	15.0	20.1	black	–	1-964575-7
			black	d	2-964575-7
			black	b, e, g	3-964575-7
			natural	b, e, g	4-964575-7
			black	–	1-964575-9
9	20.0	25.1	black	c, d, i	2-964575-9
11	25.0	30.1	black	–	1-964576-1
13	30.0	35.1	black	b, c, e, g	2-964576-1
15	35.0	40.1	black	a, d, g, i, j, n, o, p	1-964576-3
17	40.0	45.1	black	d, r	2-964576-5

**Note:** Additional keying variants available on request.

**Engineering Notes**



**Engineering Notes**

# Mouser Electronics

Authorized Distributor

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