Table of Contents

AMP I	DUOPLUG 2.5 Connector System	
	Indirect and Direct Connection 2.5mm Female Connectors Female Connectors, Selectively Loade Direct Connection 2.5mm Centerline Female Connectors, Interior Locking Female Connectors, Side Locking Tab Headers 180°	
AMP I	DUOPLUG 2.5 Mark II Connector	System
	Indirect and Direct Connection 2.5mm Technical Data	
AMP I	DUOPLUG 2.5 Power Connector S	System
	Indirect and Direct Connection 5.0mm Technical Data Keying Plan Female Connectors Tab Headers 180°	

change.

Introduction



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.

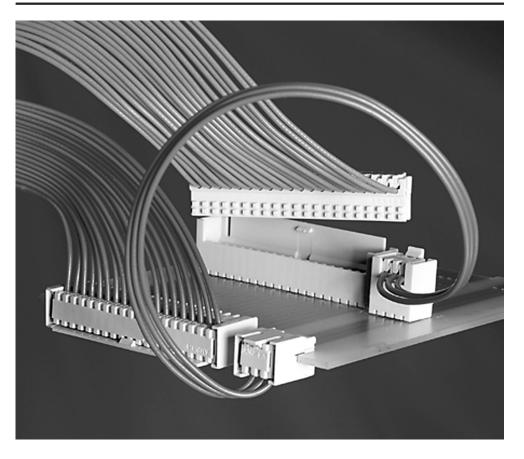
The top of the female contact is provided with an IDC slot, a technique which permits high speed wire termination.

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.

Applications

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



Technical Data

No. of Positions:

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

Centerline:

2.5 mm

Termination Technique:

Insulation Displacement Technique

Housing Material:

PBT-GF, PA 6.6 GF

Contact Material:

CuSn (CuZn) Phosphor Bronze (Brass)

Contact Finish:

Female pre-tinned Male post-tinned

PC Board Thickness:

1.5mm

Wire Range (DGB I):

0.22mm², 7 stranded 0.35mm², 12 stranded

Wire Range (DGB II): 0.35mm², 7 stranded

Temperature Range:

-40 °C up to +110 °C

Current Voltage: 63 V (250 V)

Current Rating:

max. 2 A

Insulation Diameter:

1.2-1.4mm

Contact Resistance:

≤10 mΩ

Insulation Hardness:

Shore A 92±3

Flammability Rating:

acc. UL 94 V-0

AMP Product Specification:

108-18056 / 108-20238

AMP Application Specification:

114-18049

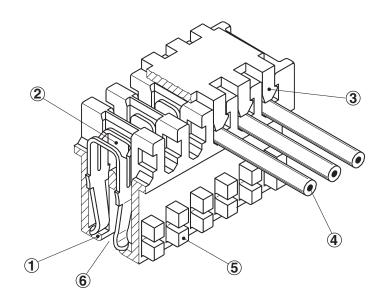
METRIC Dimensions are millimetres over inches

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



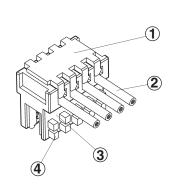


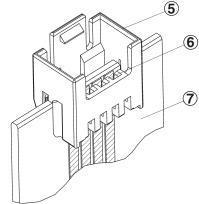
- Very good contact protection in order to avoid any stubbing problems.
- 2 Termination of the wire via metal stuffer of the tooling which guarantees a defined position of the wire in the IDC-slot of the contact.
- Reliable locking feature of every single contact assures proper strain relief.
- 4 Contact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

Indirect and Direct Connection, 2.5 mm Centerline

Direct Connection, 2.5 mm Centerline

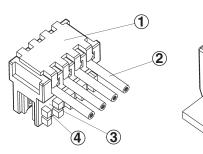
- 1 Cover
- 2 Wire
- Connector Front Side
- Keying
- Tab Header
- Keying
- 7 PC Board 1.5mm thick

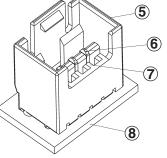




Indirect Connection, 2.5 mm Centerline

- 1 Cover
- 2 Wire
- Connector Front Side
- Keying
- Tab Header
- Tab Contact (1.5mm x 0.6mm)
- Keying
- 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:

 $0.22\text{-}0.25\text{mm}^2, \, 7 \, \text{strands} \\ 0.32\text{-}0.35\text{mm}^2, \, 12 \, \text{strands}$ Solid wire 0.40-0.50mm diameter

IDC Contact DGB II:

0.32-0.35mm². 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:

 \leq 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

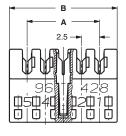
AMP Application Specification:

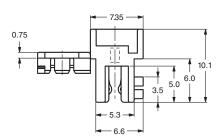
114-18049

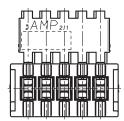
Packaging Specification:

107-18026

Female Connectors





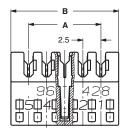


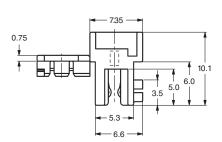
	Dimensions (mm)			Part Numbers Wire Ranges		
No. of Positions			DGB I 1)	DGB II 1)	DGB II 1)	Package Quantity
	Α	В	Colour Grey	Colour Natural	Colour Natural 2)	Quantity
3	5.0	9.9	3-829868-3	1-966194-3	1-966504-3	4.480
4	7.5	12.4	3-829868-4	1-966194-4	1-966504-4	3.640
5	10.0	14.9	3-829868-5	1-966194-5	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

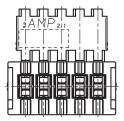
1) Wire Range: DGB I: $7 \times \emptyset$ 0.20 = 0.22 mm² $12 \times \emptyset$ 0.20 = 0.35 mm² DGB II: $7 \times \emptyset$ 0.25 = 0.35 mm²

2) Versions for higher ambient temperature

Female Connectors, Selectively Loaded







			Part N		
No. of	Dimensions		Wire F	Ranges	Package
Positions		mm)	DGB I 1)	DGB II 1)	Quantity
	Α	В	Colour Grey	Colour Natural	•
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

1) Wire Range: DGB I: $7 \times \emptyset$ 0.20 = 0.22 mm² $12 \times \emptyset$ 0.20 = 0.35 mm² DGB II: $7 \times \emptyset$ 0.25 = 0.35 mm²

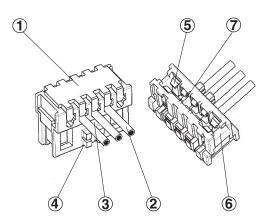
2) Versions for higher ambient temperature

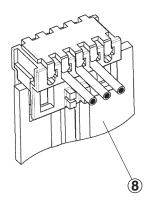
for Wire-to-Board Systems

Direct Connection, 2.5 mm Centerline

Direct Connection, **Interior Locking** 2.5 mm Centerline

- Cover
- Wire 2
- Connector Front Side
- Keying
- Interior Locking Latch
- Keying Rib
- Polarisation Rib between cavities
- 8 PC Board 1.5mm thick



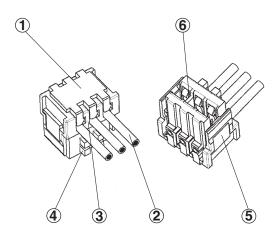


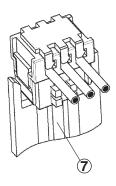
METRIC

Dimensions are millimetres over inches

Direct Connection, Side Locking 2.5 mm Centerline

- 1 Cover
- Wire
- Connector Front Side
- Keying
- Side Locking Latch
- 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:**

0.22-0.25mm², 7 strands 0.32-0.35mm², 12 strands Solid wire 0.40-0.50mm diameter

IDC Contact DGB II:

0.32-0.35mm². 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:

 \leq 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

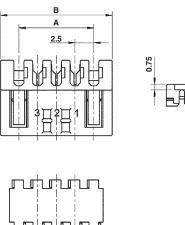
AMP Application Specification:

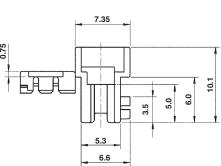
114-18049

Packaging Specification:

107-18026 / 107-20237

Female Connector, Interior Locking



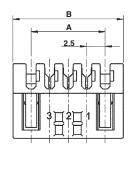


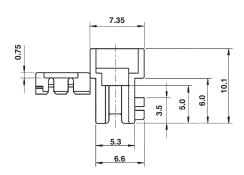
No. of	Dimensions (mm)		Part			Package		
Positions	Α	В	Number	Between Pos.	Pos.	Quantity		
2	5.0	9.9	1-1355181-2	_	_	4480		
3	10.0	14.9	1-1355181-3	_	_	3080		
4	12.5	17.4	1-1355181-4	_	_	2800		
5	15.0	19.9	1-1355181-5	_	_	2240		
6	17.5	22.4 -	1-1355181-6	_	_	2240		
О	17.5	22.4 -	2-1355181-6	3-4	_	1960		
7	20.0	24.9	1-1355181-7	_	_	1680		
8	22.5 27.4	0 00.5	00.5	07.4	1-1355181-8	_	_	1680
		27.4 -	2-1355181-8	3-4	_	1680		
9	05.0	00.0	1-1355181-9	_	_	1680		
	25.0	25.0 29.9	2-1355181-9	4-5	_	1680		
				1-1355181-0	_	_	1400	
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		
10	00.5	07.4	1-1355182-2	_	_	1400		
12	32.5	37.4 -	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		

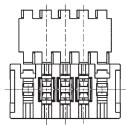
^{*} Special version selective loaded

Ra

Female Connector, Side Locking







Fully Loaded

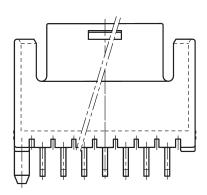
No. of	Dimens	sions (mm)	Part	Colour	Polarisation Ribs	Package
Positions	Α	В	Number	Coloui	Between Pos.	Quantity
3	5.0	9.9	0-284865-3	Black	2-3	4480
4	7.5	12.4	0-284865-4	Black	1-2	3640
	10.0	14.0	0-284865-5	Black	2-3	3080
5	10.0	14.9 –	2-284865-5	Red	3-4	3080
6	12.5	17.4	0-284865-6	Black	2-3	2800
7	15.0	19.9	0-284865-7	Black	2-4	2240
	47.5	00.4	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
	00.5	07.4	1-284865-0	Black	2-3	1680
10	22.5	27.4 –	2-284865-0	Red	9-10	1680
	07.5	00.4	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

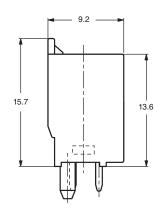
Selectively Loaded

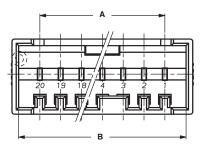
No. of Positions	Dimens	sions (mm) B	Part Number	Colour	Polarisation Ribs Between Pos.	Empty Pos.	Package Quantity
	17.5	22.4 —	0-284866-8	Blue	2-3	2-5	2240
8	17.5	22.4 —	2-284866-8	Green	2-3	2	2240
9	20.0	24.9	0-284866-9	Blue	2-3	2-5-8	1960
10	22.5	27.4	1-284866-0	Blue	2-3	9	1680
12	27.5	32.4	1-284866-2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

Catalogue 1654742 Revised 5-04

Tab Header 180°



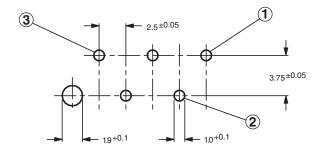




PC Board Layout

Solder Side View.

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





Tab Header 180° (continued)

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

Preferred Types are printed bold

Note: Additional Keying available on request.

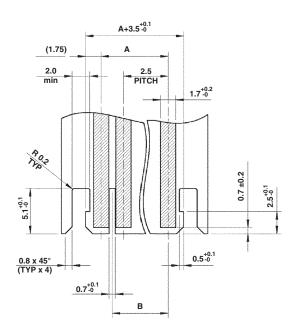
Catalogue 1654742 Revised 5-04

Direct Connection, PC Board Frame

PC Board Layout (Interior Locking)

Special Version for 2 pos. Connector A-5 1.7-0.2 2.5 0.85 ±0.05 0.75 ±0.05 5 (2.3+0.1) 2.7 ⊕ 0.1 ⊕ 0.1 0.7+0.1 ⊕ 0.1 (min. 4.5) 2.7 (2.2+0.1) (2.2+0.1) 2.2-0.1 6.5 min 6.5 min 1.8 1.5 0.5 2.2-0.1 2.5 1.3+0.1 ⊕ 0.1 4 3.8+0.1 1.25

PC Board Layout (Side Locking)



Revised 5-04

Catalogue 1654742



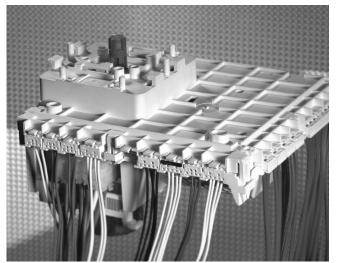
PC Board Frame (continued)

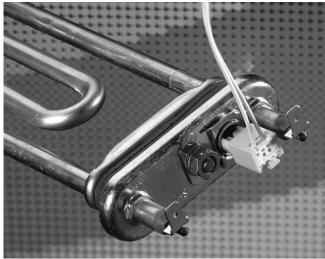
No. of	Dimensions (mm)		Colour	Keying between	Part Number	Package
Positions	Α	В	Colour	Cavity Number	PC Board Frame	Quantity
3	5.0	10.1	black	_	1-964575-3	300
4	7.5	12.6	black	_	1-964575-4	300
4	7.5	12.6	black	1/2	2-964575-4	300
4	7.5	12.6	black	2/3	3-964575-4	300
4	7.5	12.6	black	3/4	4-964575-4	300
5	10.0	15.1	black	-	1-964575-5	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	-	1-964575-6	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	-	1-964575-7	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	-	1-964575-8	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	_	1-964575-9	300
9	20.0	25.1	black	2/3, 3/4, 8/9	2-964575-9	300
10	22.5	27.6	black	-	1-964575-0	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	-	1-964576-1	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	-	1-964576-2	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	_	1-964576-3	300
15	35.0	40.1	black	-/1, 3/4, 6/7, 8/9, 9/10, 13/14, 14/15, 15/-	2-964576-5	300
17	40.0	45.1	black	3/4, 17/–	2-964576-7	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.

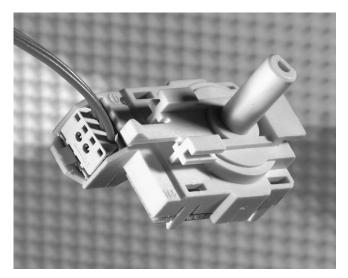
The 7- and 12-stranded conductors are suitable for a wire range of 0.22 up to 0.35 mm² (AWG 24 up to AWG 22, AWM Style 1569/1007) with a max. insulation diameter of 1.6 mm.

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.





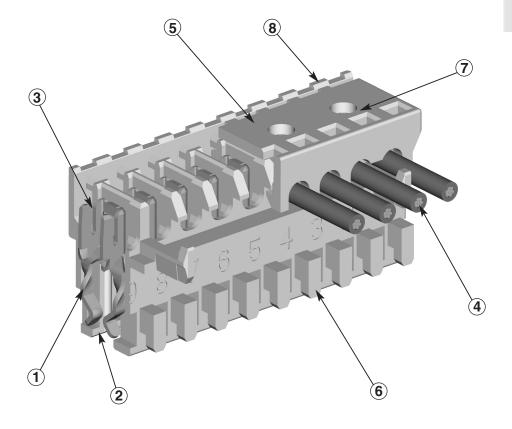
Technical Features

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



■ UL recognised under File No. E 28476



- Twisted contact provides high contact force without excessive mating force.
- 2 Very good contact protection eliminates stubbing problems.
- Wires are terminated via metal stuffer in tooling which ensures proper positioning of the wire in the IDC slot of contact.
- Contacts are suitable for 7-stranded and multistranded 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.

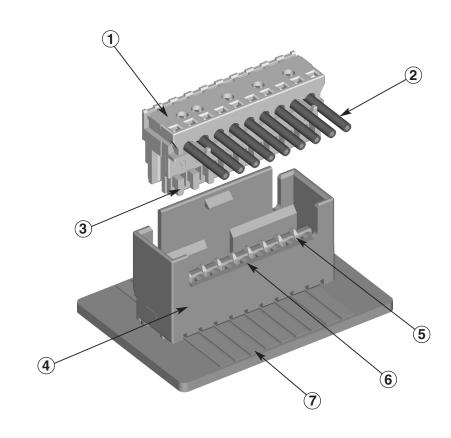
Indirect and Direct Connection, 2.5 mm Centerline

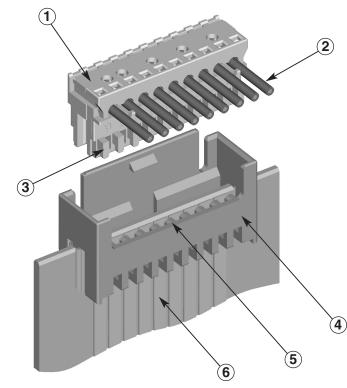
Indirect Connection, 2.5 mm Centerline

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

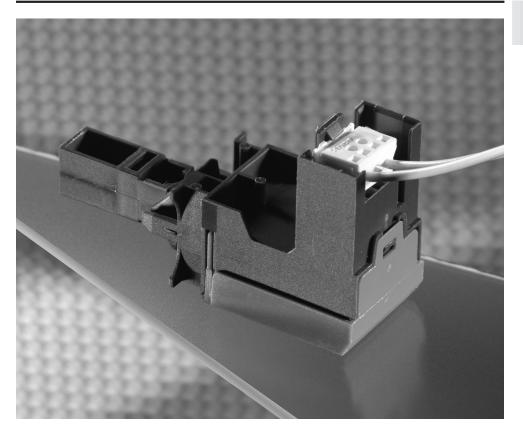
Direct Connection, 2.5 mm Centerline

- 1 Cover
- 2 Wire
- Keying Ribs
- PC Board Frame
- Keying
- 6 PC Board





Technical Data



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 °C up to +110 °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 mm² (AWG 24-22, AWM Style 1569/1007)

Composition of Conductors:

7- and 12-stranded

Insulation Hardness:

Shore A 92 ±3

Insulation Diameter:

1.2-1.6 mm

PC Board Thickness:

1.5 ±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

\blacksquare Material and Finish

Housing Material:

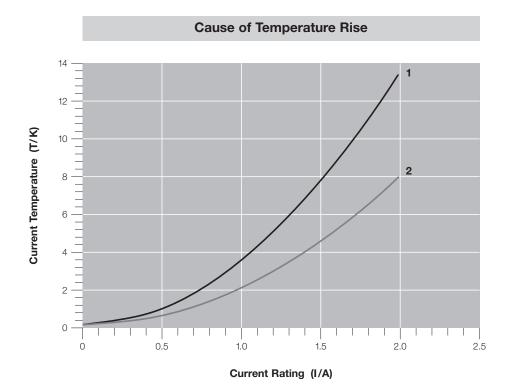
PA 6 GF, acc. UL 94 V-2

Contact Material:

Phosphor Bronze (CuSn)

Contact Finish:

tin plated



■ Wire Range:

0.22 mm² (7-strands, tin plated) 0.35 mm² (12-strands, tin plated)

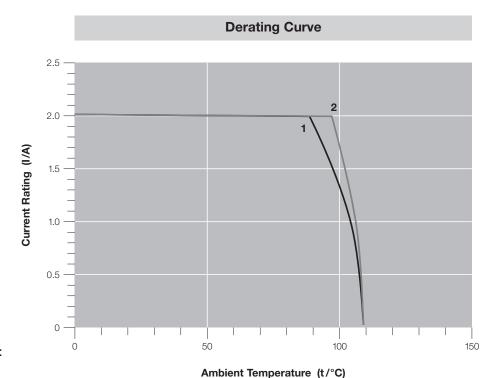


PC Board:

one side coated

Pad:

0.35 µm x 1.9 mm, Copper, HAL, tin plated



■ Measurement Construction:

(1): 0.22 mm² (2): 0.35 mm²

Performance Diagrams (continued)

Technical Data

■ Female Connector, 20 Positions

Part-No. 3-1534797-0

■ Material and Finish

Housing Material:

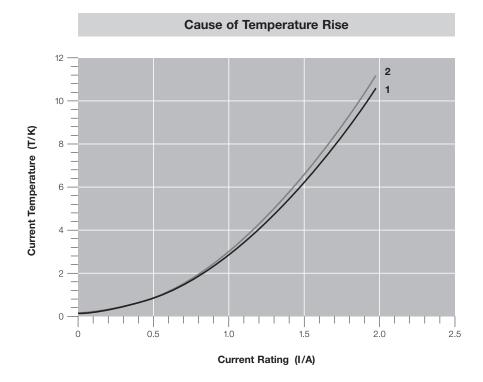
PA 6 GF, acc. UL 94 V-2

Contact Material:

Phosphor Bronze (CuSn)

Contact Finish:

tin plated



■ Wire Range:

0.22 mm² (7-strands, tin plated) 0.35 mm² (12-strands, tin plated)

■ Counter Part

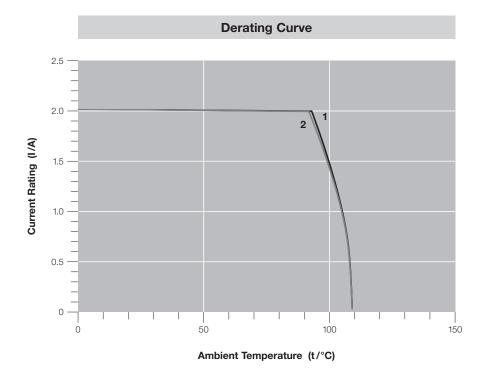
Tab Header

Housing:

PBT-GF, acc. UL 94 V-0

Pin:

1.5 x 0.6 mm, CuZn 30, tin plated



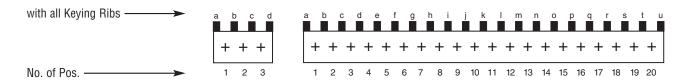
■ Measurement Construction:

(1): 0.22 mm² (2): 0.35 mm²

Keying Plan and Female Connector Geometry

Keying Plan

Delivery Form



















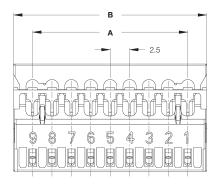


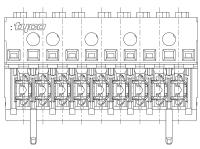


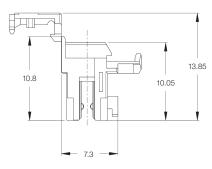


Keying is done by unit during application process.

AMP DUOPLUG 2,5 Mark II Female Connector

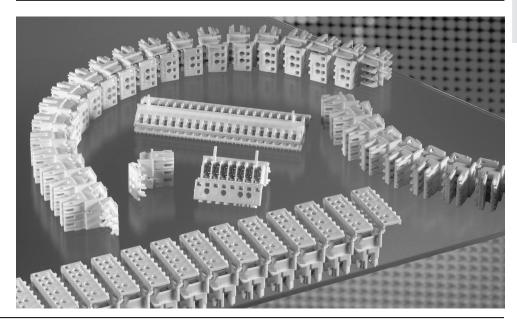






Female Connectors

AMP DUOPLUG 2.5 Mark II Female Connectors



No. of		nsions im)	Keying	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package
Positions	A	В	_ Keying	Housing Colour: Natural	Contact Finish	Part Number	Quantity
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	4.000
12	27.5	32.4	R2.5/1-12-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-2	4,928
13	30.0	34.9	R2.5/1-13-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-3	4.010
14	32.5	37.4	R2.5/1-14-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-4	4,312
15	35.0	39.9	R2.5/1-15-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-5	2.606
16	37.5	42.4	R2.5/1-16-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-6	3,696
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	2.090
19	45.0	49.9	R2.5/1-19-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-9	3,080
20	47.5	52.4	R2.5/1-20-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-0	

No. of	Dimensions (mm)		Selectively Loaded	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package	
Positions	Α	В	Keying	Housing Colour: Natural	Contact Finish	Part Number	Quantity	
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	

 $[\]ref{Matter}$ According IEC 60695-2-1/1; GWT (Glow Wire Test) 750 °C without flame, look VDE M-Test Report.

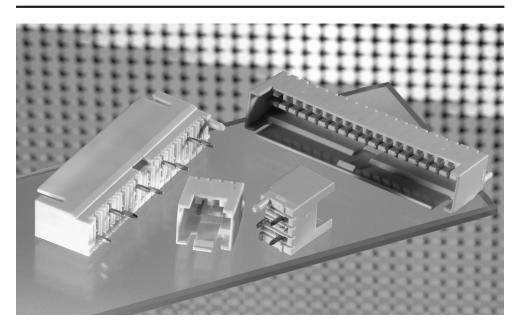
Note: Additional variants on request.

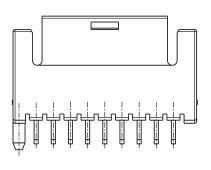
The connector keying and colour marking is done with the units on the workstation.

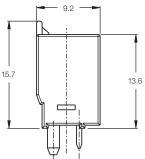
Catalogue 1654742 Revised 5-04

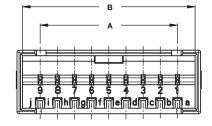
Tab Headers 180°

AMP DUOPLUG 2.5 Mark II Tab Header 180°







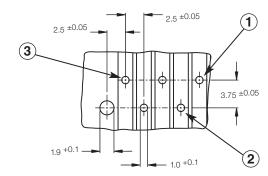


PC Board Layout

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)

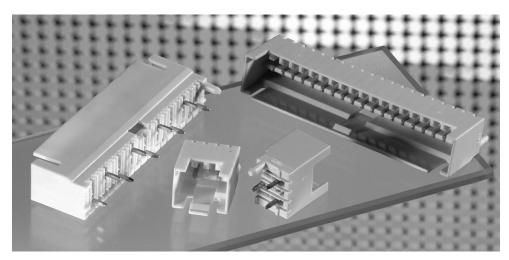
No. of		nsions nm)	Housing	Housing Colour	Keying	Part Number	Package
Positions	Α	В	Material		,,	Tab Header	Quantity
				natural	-	1-829866-3	
3	5.0	10.15	PBT-GF, V-0	grey	-	2-829866-3	416
				grey	b	3-829866-3	-
4	7.5	10.65	DDT OF V O	natural	-	1-829866-4	250
4	7.5	12.65	PBT-GF, V-0	grey	-	2-829866-4	- 352
				natural	d	1-829866-5	
E	10.0	15 15	PBT-GF, V-0	grey	е	2-829966-5	- 300
5	10.0	15.15	PB1-GF, V-U	grey	-	3-829866-5	- 300
				grey	-	4-829866-5	-
6	10 F	17.05	DDT OF V O	natural	-	1-829866-6	056
6	12.5	17.65	PBT-GF, V-0	grey	-	2-829966-6	- 256
				natural	-	1-829866-7	
7	15.0	20.15	PBT-GF, V-0	grey	-	2-829966-7	224
				grey	d	3-829866-7	-
0	17.5	00.05	DDT OF WA	natural	-	1-829866-8	— 196
8	17.5	22.65	PBT-GF, V-0	grey	-	2-829966-8	
	22.2	05.45	DDT OF MA	natural	-	1-829866-9	100
9	20.0	25.15	PBT-GF, V-0	grey	-	2-829966-9	- 180
	00.5	07.05	DDT OF MA	natural	-	1-829866-0	100
10	22.5	27.65	PBT-GF, V-0	grey	-	2-829966-0	- 168
				natural	_	1-829867-1	
11	25.0	30.15	PBT-GF, V-0	grey	_	2-829867-1	- 150
	07.5	00.05	DDT 05 1/ 0	natural	-	1-829867-2	
12	27.5	32.65	PBT-GF, V-0	grey	-	2-829867-2	- 140
	22.2	00.45	DDT 05 1/ 0	natural	-	1-829867-3	
13	30.0	32.15	PBT-GF, V-0	grey	-	2-829867-3	- 140
	00.5	07.05	DDT 05 1/ 0	natural	-	1-829867-4	100
14	32.5	37.65	PBT-GF, V-0	grey	-	2-829867-4	- 128
				natural	_	1-829867-5	
15	35.0	40.15	PBT-GF, V-0	grey	-	2-829867-5	- 120
	07.5	10.05	DDT 05 1/ 0	natural	-	1-829867-6	
16	37.5	42.65	PBT-GF, V-0	grey	-	2-829867-6	- 112
	40.0	45.45	DDT 05 1/ 0	natural	-	1-829867-7	101
17	40.0	45.15	PBT-GF, V-0	grey	-	2-829867-7	- 104
			DDT 67	natural	_	1-829867-8	
18	42.5	47.65	PBT-GF, V-0	grey	_	2-829867-8	- 102
				natural	_	1-829867-9	
19	45.0	50.15	PBT-GF, V-0 grey		_	2-829867-9	- 96
				natural	_	1-829867-0	
20	47.5	52.65	PBT-GF, V-0	grey	_	2-829867-0	- 90

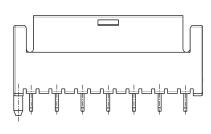
Preferred Types are printed bold.

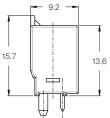
Note: Additional keying variants available on request

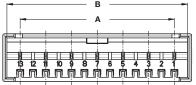
Tab Headers 180° - Selectively Loaded

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







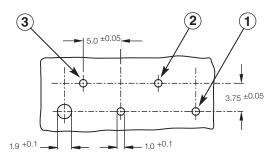


PC Board Layout

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

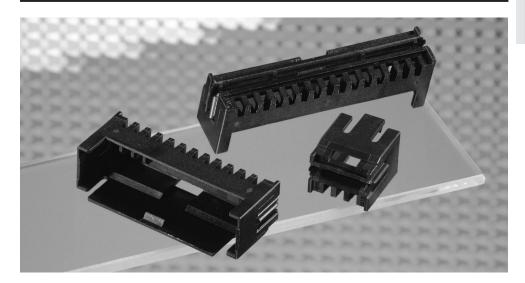


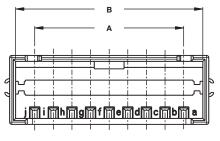
No. of	Dimensions (mm)		Tab Header Selectively Loaded	Housing Material		Package
Positions	Α Α	В	Keying	Housing Colour: Grey	Part Number	Quantity
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	224
9	20.0	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

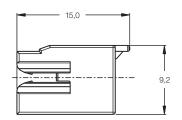
Note: Additional keying variants available on request.

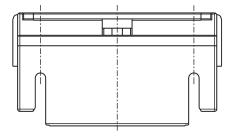
PC Board Frame

PC Board Frame

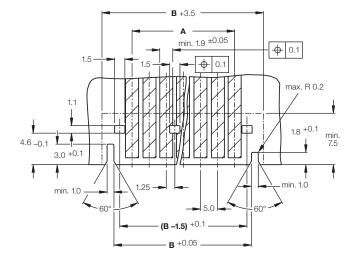








PC Board Layout



PC Board Frame (continued)

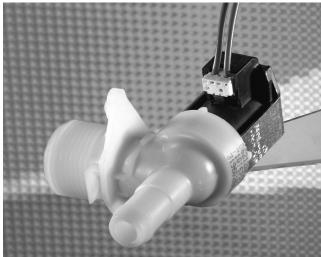
No. of Positions	Dimensions (mm)		Housing	Housing Colour	Keying	Part Number
	A	В	Material		,	Tab Header
3	5.0	10.1	PA 6.6 GF, V-0	black	-	1-964575-3
				black	-	1-964575-4
4	7.5	10.6	PA 6.6 GF, V-0	black	b	2-964575-4
4	7.5	12.6	FA 0.0 GF, V-0	black	С	3-964575-4
				black	d	4-964575-4
			PA 6.6 GF, V-0	black	-	1-964575-5
5	10.0	15.1		black	d	2-964575-5
				black	b, e	3-964575-5
				black	-	1-964575-6
6	12.5	17.6	PA 6.6 GF, V-0	black	d, f	2-964575-6
				black	d, e	3-964575-6
	15.0		PA 6.6 GF, V-0	black	-	1-964575-7
7		20.1		black	d	2-964575-7
1				black	b, e, g	3-964575-7
				natural	b, e, g	4-964575-7
	17 F	22.6	PA 6.6 GF, V-0	black	-	1-964575-8
8	17.5			black	b, c, d, h	2-964575-8
9	20.0	0F 1	DA 6 6 CE V O	black	-	1-964575-9
9	20.0	25.1	PA 6.6 GF, V-0	black	c, d, i	2-964575-9
10	22.5	27.6	PA 6.6 GF, V-0	black	-	1-964575-0
	22.5			black	a, b, c, e, h, i, k	3-964575-0
11	05.0	20.1	DA 0.00E V.0	black	-	1-964576-1
11	25.0	30.1	PA 6.6 GF, V-0	black	b, c, e, g	2-964576-1
				black	-	1-964576-2
				black	k	2-964576-2
10	07.5	32.6	DA 6 6 CE V O	natural	k	3-964576-2
12	27.5		PA 6.6 GF, V-0	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
13	30.0	32.6	PA 6.6 GF, V-0	black	-	1-964576-3
15	35.0	40.1	PA 6.6 GF, V-0	black	a, d, g, i, j, n, o, p	2-964576-5
17	30.0	45.1	PA 6.6 GF, V-0	black	d, r	2-964576-7

Preferred Types are printed bold.

Note: Additional keying variants available on request

Introduction





millimetres over inches

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 multistranded conductors are suitable for a wire range of 0.35 mm² up to 0.5 mm² (AWG 22 up to AWG 20, ÀWM Style 1569/1007).

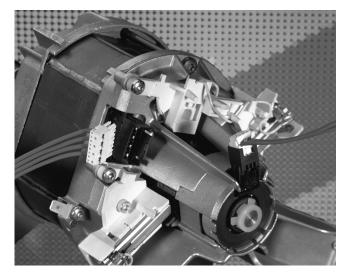
The cover provides very good contact protection and has openings for easy electrical inspection.

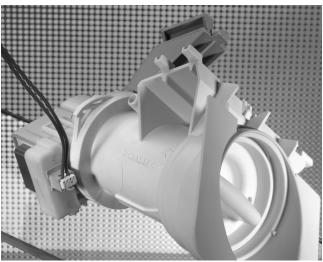
We offer a complete range of termination equipment from the hand tool to the

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.





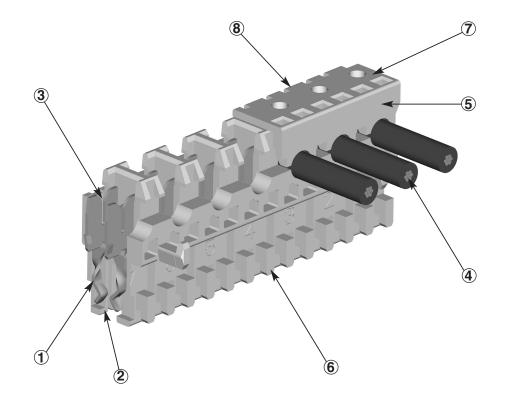
Technical Features

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



■ UL recognised under File No. E 28476

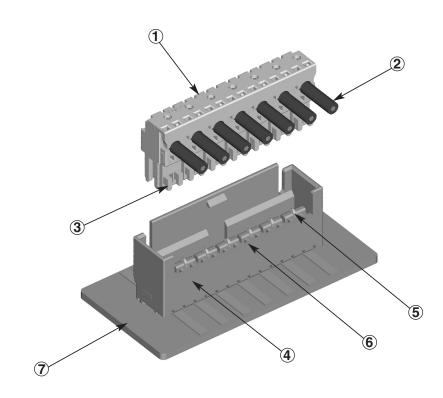


- 1 Twisted contact provides high contact force without excessive mating force.
- Very good contact protection eliminates stubbing problems.
- Wires are terminated via metal stuffer in tooling which ensures proper positioning of the wire in the IDC slot of contact.
- 4 Contacts are suitable for 7-stranded 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, 5.0 mm Centerline

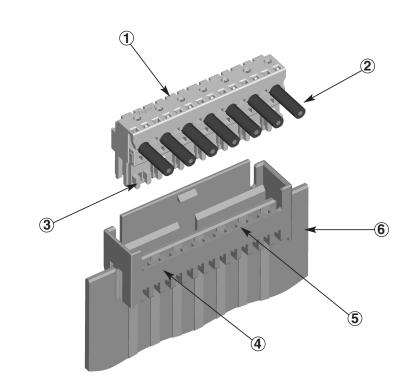
Indirect Connection, 5.0 mm Centerline

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

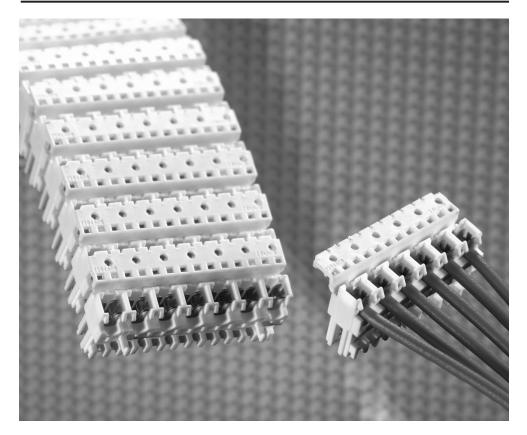


Direct Connection, 5.0 mm Centerline

- 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 m Ω

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 mm² (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:

 $1.5 \pm 0.14 \text{ mm}$

Approval:

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

 ${\bf Product\ Specification:}$

108-18780

Packaging Specification:

107-18068

Application Specification:

114-18458

Performance Diagrams

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:

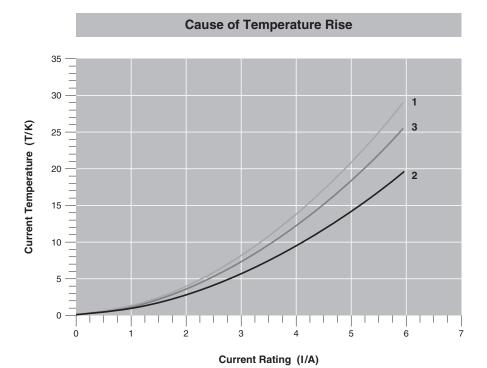
CuNiSi

Contact Finish:

tin plated

■ Wire Range:

0.5 mm², 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:

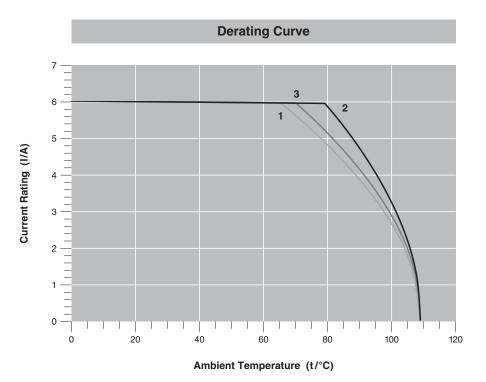
Pin 1.5 x 0.6 mm, CuZn 30, tin plated

■ Measurement:

(1): CEM1, single side coated

(2): FR4, double side coated

(3): PBT-GF, Tab Header



Keying Plan

1394918-2 1534415-2

a b c d 2 1

1-1394918-2 1-1534415-2

2-1394918-2 2-1534415-2

a b c d XXXX 3-1394918-2 3-1534415-2

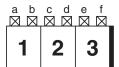
a b c d

1394918-3 1534415-3

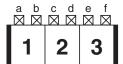
1-1394918-3 1-1534415-3

abcdef 3

2-1394918-3 2-1534415-3



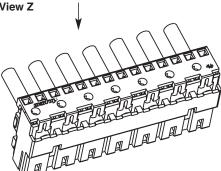
3-1394918-3 3-1534415-3



1394918-9 1534415-9

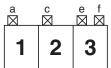


View Z



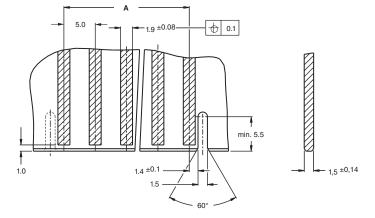
Possible Keying Example R2.5 / P-3b,d 1394918-3 1534415-3

Keying is done with units during application process.



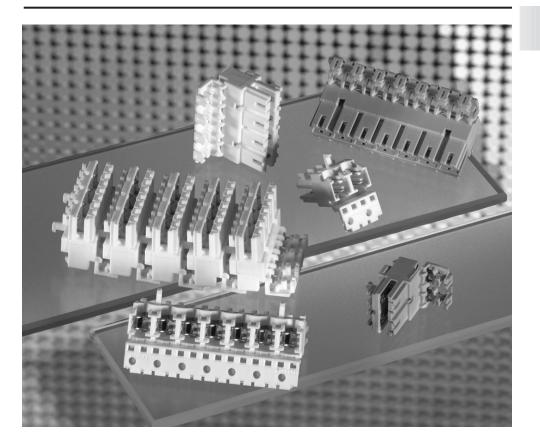
PC Board Layout

PC Board Layout keyed, **Connected only with Additional Guide Frame**



AMP DUOPLUG Power Female Connectors





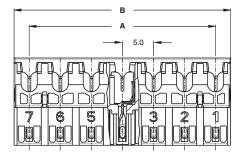
No. of	Dimensions (mm)		Keying	Housing Material	Contact Material	Part Number	Package
Positions	Α	В	. Reyling	Housing Colour: Pale Grey	Contact Finish	rait Number	Quantity
			R2.5 / P-2-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-2	
	F 0	0.0	R2.5 / PL-2-	PA 6.6 V-0	CuNiSi, tin plated	1-1394918-2	15,400
2	5.0	9.9	R2.5 / PR-2-	PA 6.6 V-0	CuNiSi, tin plated	2-1394918-2	
			R2.5 / PRL-2-	PA 6.6 V-0	CuNiSi, tin plated	3-1394918-2	
			R2.5 / P-3-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-3	
0	10.0	440	R2.5 / PL-3-	PA 6.6 V-0	CuNiSi, tin plated	1-1394918-3	40.470
3	10.0	14.9	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

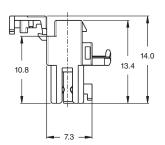
Note: Additional variants on request.

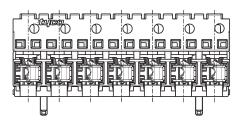
The connector keying and colour marking is done with the units on the workstation.

Female Connectors (continued)

AMP DUOPLUG Power Female Connectors (continued)







No. of Positions —	Dimen (mı		Selectively Loaded	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package Quantity
	Α	В	_ Keying	Housing Colour: Natural	Contact Finish	Part Number	
		9.9	R2.5 / P-2-	PA 6 V-2	CuNiSi, tin plated	0-1534415-2	15,400
2	5.0		R2.5 / PL-2-	PA 6 V-2	CuNiSi, tin plated	1-1534415-2	
2	5.0		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	
		14.0	R2.5 / P-3-	PA 6 V-2	CuNiSi, tin plated	0-1534415-3	10,472
0	10.0		R2.5 / PL-3-	PL-3- PA 6 V-2 CuNiSi, t	CuNiSi, tin plated	1-1534415-3	
3	10.0	14.9	R2.5 / PR-3- PA 6 V-2	CuNiSi, tin plated	2-1534415-3	10,472	
				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

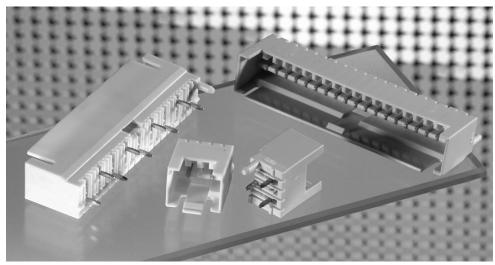
^{*)} According IEC 60695-2-1/1; GWT (Glow Wire Test) 750 °C without flame, look VDE M-Test Report.

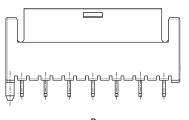
Note: Additional variants on request.

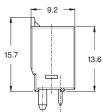
The connector keying and colour marking is done with the units on the workstation.

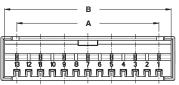
Tab Headers 180°

Tab Header 180° for Use with AMP DUOPLUG Power





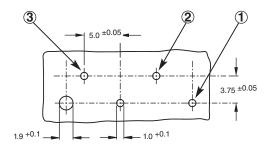




PC Board Layout for AMP DUOPLUG 2.5 Tab Header, Loaded with Contacts, 5.0 mm Centerline

Solder Side View.

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

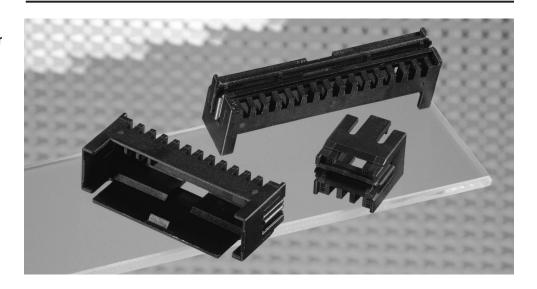


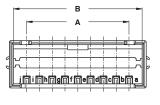
No. of	Dimensions (mm)		Tab Header Selectively Loaded	Housing Material	D. AM. orbit	Package
Positions	Α	В	Keying	Housing Colour: Grey	Part Number	Quantity
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	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

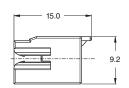
Note: Additional keying variants available on request.

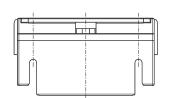
PC Board Frame

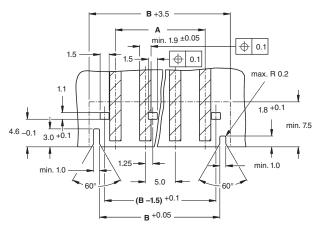
PC Board Frame for Use with AMP DUOPLUG Power











PC Board Layout

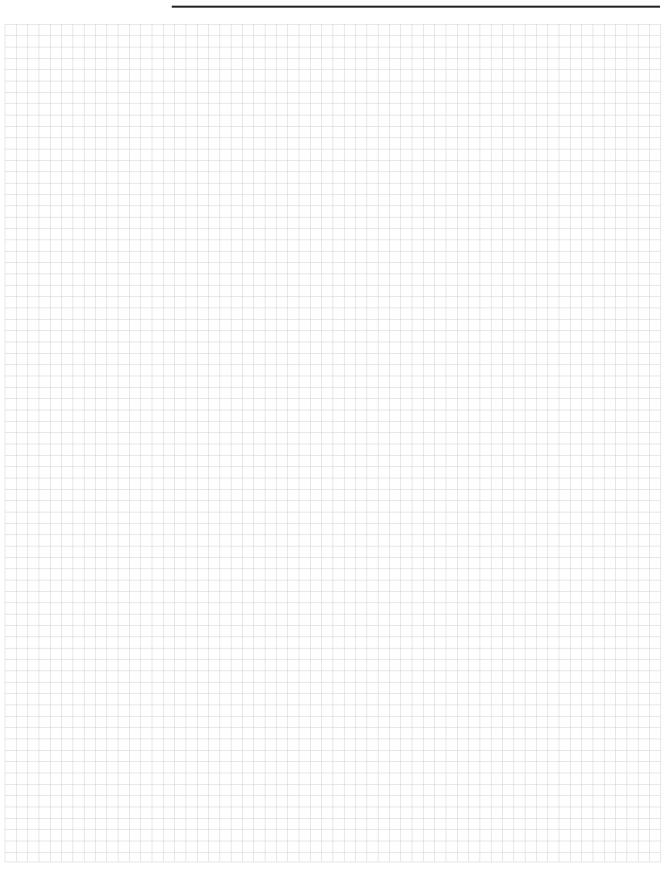
No. of	Dimensions (mm)		Housing Material: PA 6.6 GF, V-0	Keying	Part Number	
Positions	Α	В	Housing Colour	,9	PC Board Frame	
3	5.0	10.1	black	-	1-964575-3	
			black	-	1-964575-5	
5	10.0	15.1	black	d	2-964575-5	
			black	b, e	3-964575-5	
			black	-	1-964575-7	
-	15.0	20.1	black	d	2-964575-7	
7			black	b, e, g	3-964575-7	
			natural	b, e, g	4-964575-7	
	20.0	05.1	black	-	1-964575-9	
9	20.0	25.1	black	c, d, i	2-964575-9	
44	25.0	30.1	black	-	1-964576-1	
11			black	b, c, e, g	2-964576-1	
13	30.0	35.1	black	-	1-964576-3	
15	35.0	40.1	black	a, d, g, i, j, n, o, p	2-964576-5	
17	40.0	45.1	black	d, r	2-964576-7	

Note: Additional keying variants available on request.

Engineering Notes





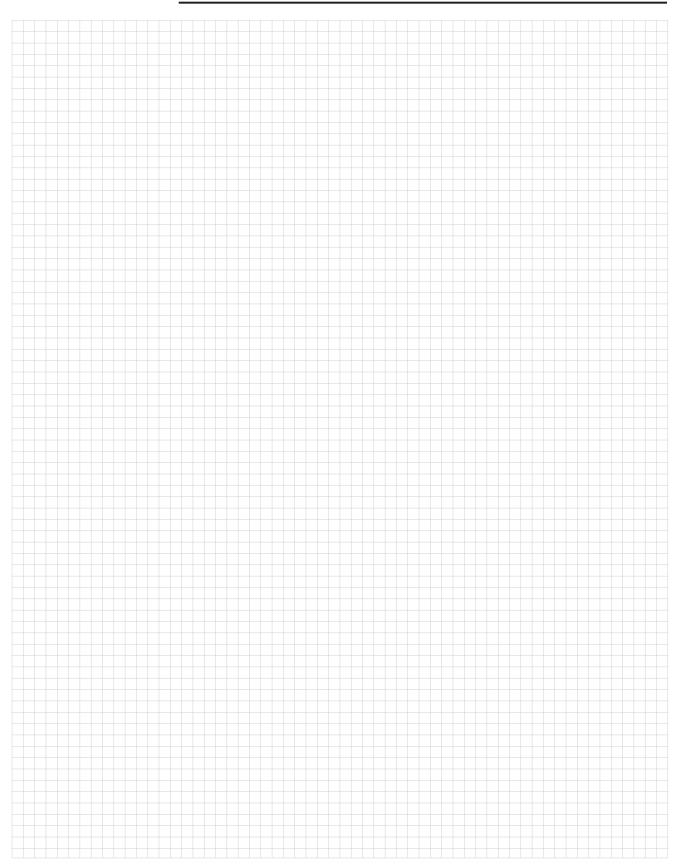






Catalogue 1654742 Revised 5-04

Engineering Notes



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