**Rast 2.5** 

AMP	DUOPLUG 2.5 Connector System	
	Introduction and Technical Features Indirect and Direct Connection 2.5mm Centerline. Female Connectors Female Connectors, Selectively Loaded Direct Connection 2.5mm Centerline Female Connectors, Interior Locking Female Connectors, Side Locking Tab Headers 180° Direct Connection, PC Board Frame	
AMP I	DUOPLUG 2.5 Mark II Connector System	
	Introduction and Technical Features Indirect and Direct Connection 2.5mm Centerline. Technical Data Keying Plan Female Connector Geometry Female Connectors Tab Headers 180° PC Board Frame	
AMP I	DUOPLUG 2.5 Power Connector System	
	Introduction and Technical Features Indirect and Direct Connection 5.0mm Centerline Technical Data Keying Plan Female Connectors Tab Headers 180° PC Board Frame	

Specifications subject to

change.

### AMP DUOPLUG 2.5 Connector System

for Wire-to-Board Systems



### Catalogue 1654742 Revised 5-04

### Introduction

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

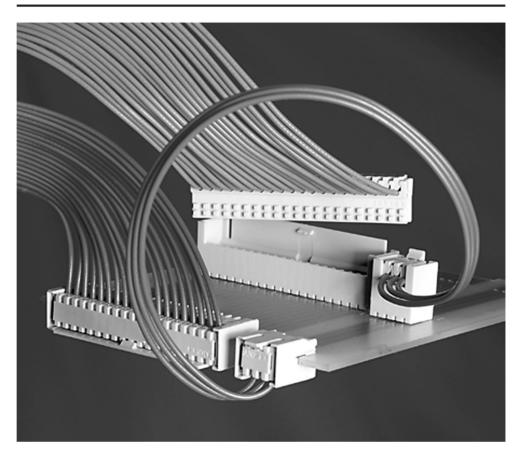
The AMP DUOPLUG 2.5 Connector System offers a complete printed circuit board system which is suitable for edge as well as female to header applications using the same female part.

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 keving 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):

0.22mm<sup>2</sup>, 7 stranded 0.35mm<sup>2</sup>, 12 stranded

### Wire Range (DGB II):

0.35mm<sup>2</sup>, 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:**

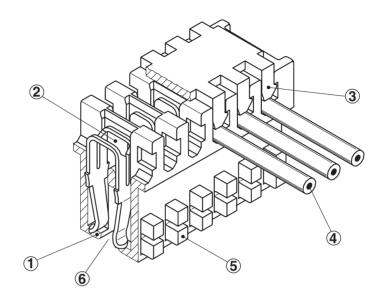
114-18049

### **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**
- 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





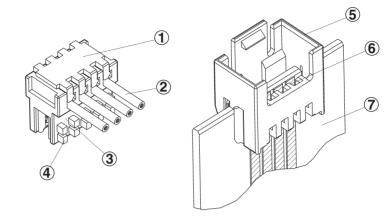
- Very good contact protection in order to avoid any stubbing problems.
- Termination of the wire via metal stuffer of the tooling which guarantees a defined position of the wire in the IDC-slot of the contact.
- Reliable locking feature of every single contact assures proper strain relief.
- Contact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

change.

### Indirect and Direct Connection, 2.5 mm Centerline

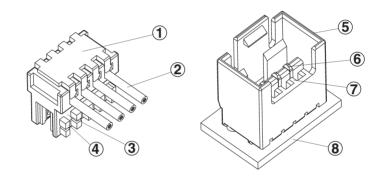
### Direct Connection, 2.5 mm Centerline

- 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

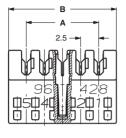
### **AMP Application Specification:**

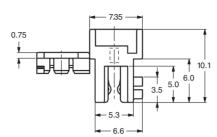
114-18049

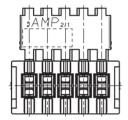
### **Packaging Specification:**

107-18026

### **Female Connectors**







	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)	Guarriny		
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		

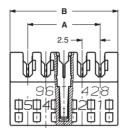
1) Wire Range: DGB I:  $7 \times \emptyset 0.20 = 0.22 \text{ mm}^2$ 12 x Ø 0.20 = 0.35 mm<sup>2</sup> DGB II: 7 x Ø 0.25 = 0.35 mm<sup>2</sup>

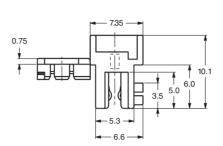
2) Versions for higher ambient temperature

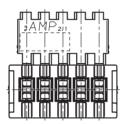
Catalogue 1654742

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### Female Connectors, Selectively Loaded







			Part N	umbers		
No. of	Dimensions		Wire F	Wire Ranges		
Positions		mm)	DGB I 1)	DGB II 1)	Package 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 mm<sup>2</sup> 12 x Ø 0.20 = 0.35 mm<sup>2</sup> DGB II: 7 x Ø 0.25 = 0.35 mm<sup>2</sup>

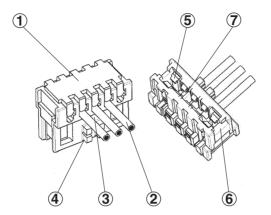
2) Versions for higher ambient temperature

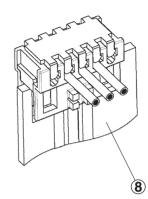
Catalogue 1654742

### **Direct Connection, 2.5 mm Centerline**

### **Direct Connection.** Interior Locking 2.5 mm Centerline

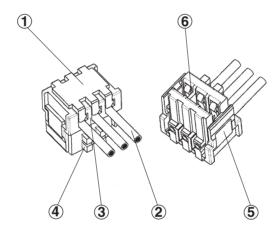
- 1 Cover
- Wire
- 3 Connector Front Side
- Keying
- Interior Locking Latch
- Keying Rib
- Polarisation Rib between cavities
- PC Board 1.5mm thick

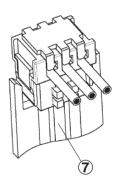




### **Direct Connection.** Side Locking 2.5 mm Centerline

- Cover
- Wire
- Connector Front Side
- Kevina
- Side Locking Latch
- Polarisation Rib between cavities
- 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

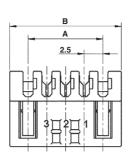
### **Packaging Specification:**

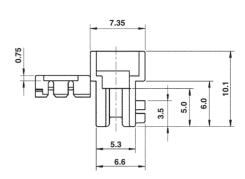
107-18026 / 107-20237

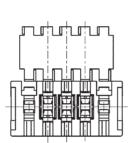


Revised 5-04

### **Female Connector, Interior Locking**







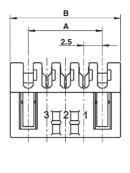
No. of	Dimensions (mm)		Part	Polarisation Ribs	Empty	Package	
Positions	Α	В	Number	Between Pos.	Pos.	Quantity	
2	5.0	9.9	1-1355181-2	_	_	4480	
3	10.0	14.9	1-1355181-3	_	_	3080	
4	12.5	17.4	1-1355181-4	_	_	2800	
5	15.0	19.9	1-1355181-5	_	_	2240	
	47.5	00.4	1-1355181-6	_	_	2240	
6	17.5	22.4 -	2-1355181-6	3-4	_	1960	
7	20.0	24.9	1-1355181-7	_	_	1680	
		00.5	27.4	1-1355181-8	_	_	1680
8	22.5	27.4 -	2-1355181-8	3-4	_	1680	
9			1-1355181-9	_	_	1680	
	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	
			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	

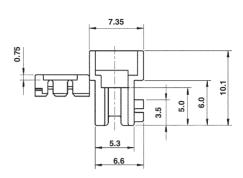
<sup>\*</sup> Special version selective loaded

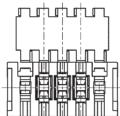
Catalogue 1654742

Revised 5-04

### **Female Connector, Side Locking**







### **Fully Loaded**

No. of	Dimensions (mm)		Part	Colour	Polarisation Ribs	Package
Positions	Α	В	Number	00.00.	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
_	40.0	110	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
0	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
40	00.5	07.4	1-284865-0	Black	2-3	1680
10	22.5	27.4 –	2-284865-0	Red	9-10	1680
10	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

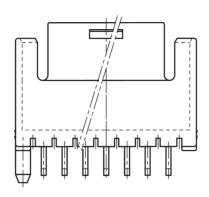
### **Selectively Loaded**

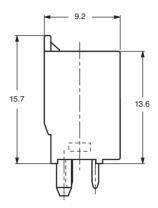
No. of Positions		sions (mm)	<u>)</u> Part Co		Polarisation Ribs Between Pos.	Empty Pos.	Package Quantity
	Α	В					
	17.5	22.4 —	0-284866-8	Blue	2-3	2-5	2240
8	17.5	22.4 —	2-284866-8	Green	2-3	2	2240
9	20.0	24.9	0-284866-9	Blue	2-3	2-5-8	1960
10	22.5	27.4	1-284866-0	Blue	2-3	9	1680
12	27.5	32.4	1-284866-2	Blue	2-3	2-5-8-10	1400

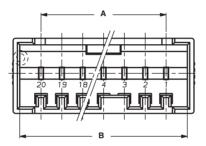


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### Tab Header 180°



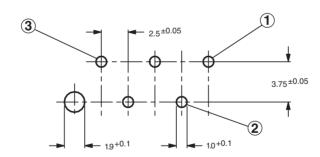




### **PC** Board Layout

Solder Side View.

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



# **AMP DUOPLUG 2.5 Connector System** for Wire-to-Board Systems

Dimensions are millimetres over inches

Catalogue 1654742

Revised 5-04

### 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.

### AMP DUOPLUG 2.5 Connector System

for Wire-to-Board Systems



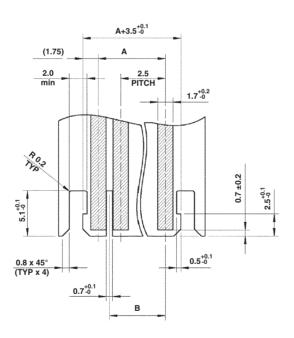
Catalogue 1654742 Revised 5-04

### **Direct Connection, PC Board Frame**

# PC Board Layout (Interior Locking)

#### **Special Version for** 2 pos. Connector A-5 2.5 1.7-0.2 0.85 ±0.05 0<u>.75 ±0.05</u> 5 (2.3+0.1) ⊕ 0.1 **⊕** 0.1 0.7÷0.1 ⊕ 0.1 (min. 4.5) 400 2.7 2.7 (2.2+0.1) 2.2-0.1 (2.2+0.1) 6.5 min 6.5 min 1.5 1.8 0.5 2.5 30 1.3+0.1 ⊕ 0.1 ⊕ 0.1 4.3 4 ⊕ 0.1

# PC Board Layout (Side Locking)



Dimensions are millimetres over inches

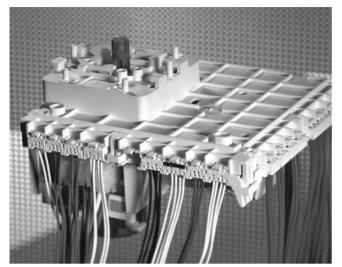
### PC Board Frame (continued)

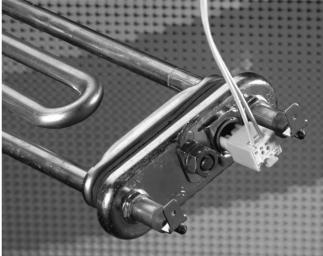
No. of	Dimensions (mm)		Colour	Keying between	Part Number	Package
Positions	Α	В	00.00.	Cavity Number	PC Board Frame	Quantity
3	5.0	10.1	black	_	1-964575-3	300
4	7.5	12.6	black	-	1-964575-4	300
4	7.5	12.6	black	1/2	2-964575-4	300
4	7.5	12.6	black	2/3	3-964575-4	300
4	7.5	12.6	black	3/4	4-964575-4	300
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.

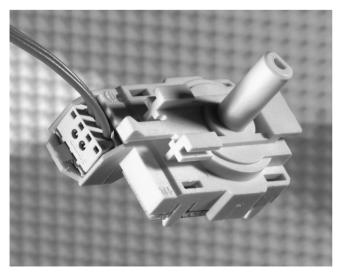
The 7- and 12-stranded conductors are suitable for a wire range of 0.22 up to 0.35 mm² (AWG 24 up to AWG 22, AWM Style 1569/1007) with a max. insulation diameter of 1.6 mm.

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.





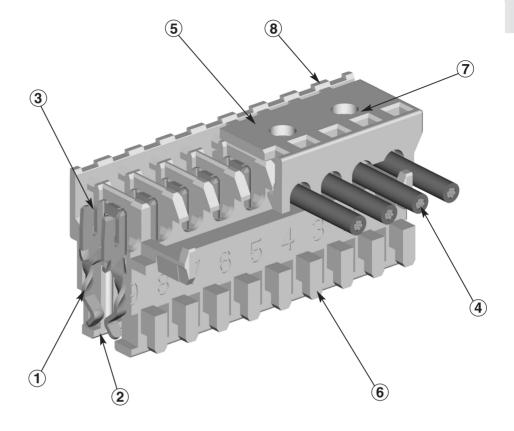
### **Technical Features**

### **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



- 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 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.

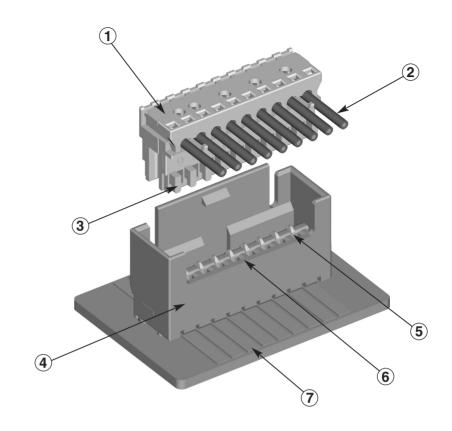
### Indirect and Direct Connection, 2.5 mm Centerline

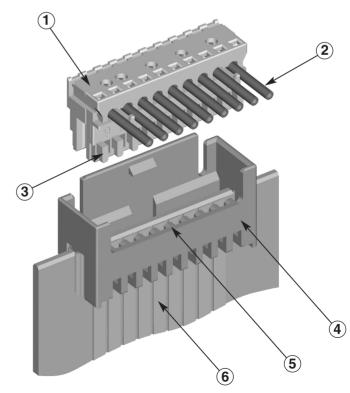
### Indirect Connection, 2.5 mm Centerline

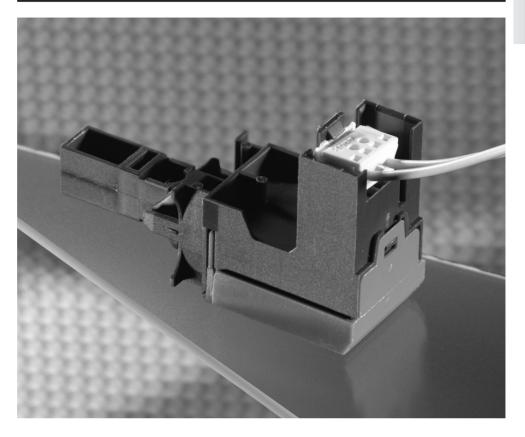
- 1 Cover
- 2 Wire
- 3 Keying Ribs
- 4 Tab Header
- 5 Tab Contact (1.5 x 0.6 mm)
- 6 Keying
- 7 PC Board

# Direct Connection, 2.5 mm Centerline

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







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 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 mm<sup>2</sup> (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

### ■ Material and Finish

Housing Material:

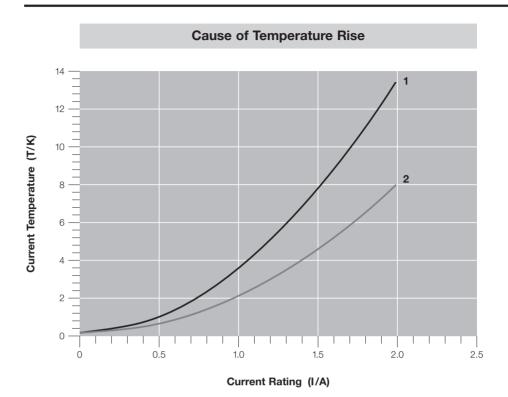
PA 6 GF, acc. UL 94 V-2

### **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)

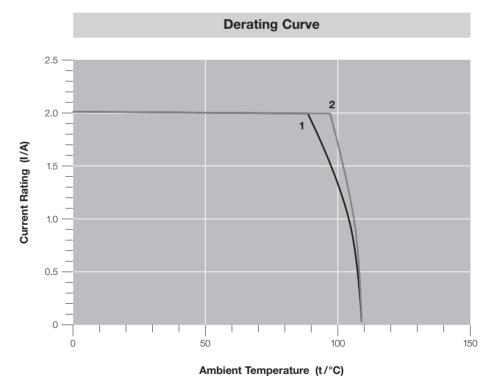


### PC Board:

one side coated

### Pad:

0.35  $\mu m$  x 1.9 mm, Copper, HAL, tin plated



### ■ Measurement Construction:

(1): 0.22 mm<sup>2</sup> (2): 0.35 mm<sup>2</sup> ■ Female Connector, 20 Positions

Part-No. 3-1534797-0



**Housing Material:** 

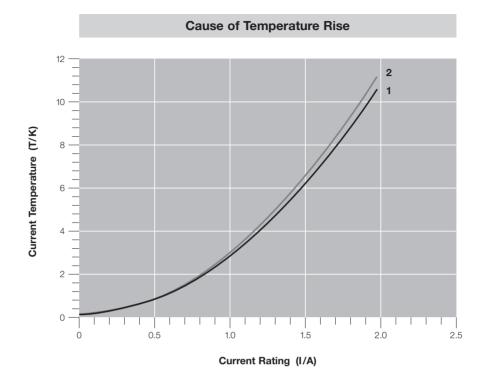
PA 6 GF, acc. UL 94 V-2

### **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

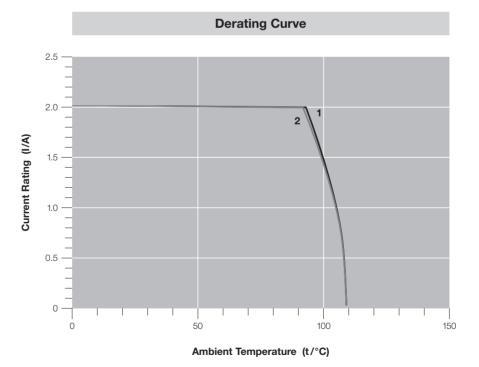
**Tab Header** 

### Housing:

PBT-GF, acc. UL 94 V-0

### Pin:

1.5 x 0.6 mm, CuZn 30, tin plated



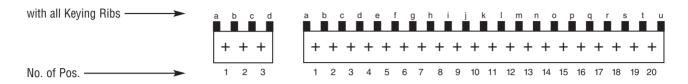
### **■** Measurement Construction:

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

### **Keying Plan and Female Connector Geometry**

### **Keying Plan**

### **Delivery Form**



### Keying Example: 3/2 positions















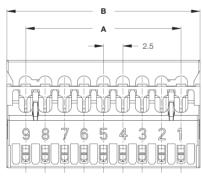


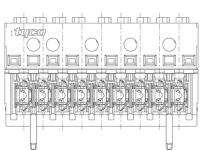


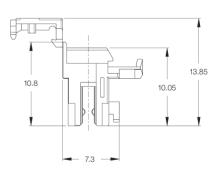


Keying is done by unit during application process.

# AMP DUOPLUG 2,5 Mark II Female Connector





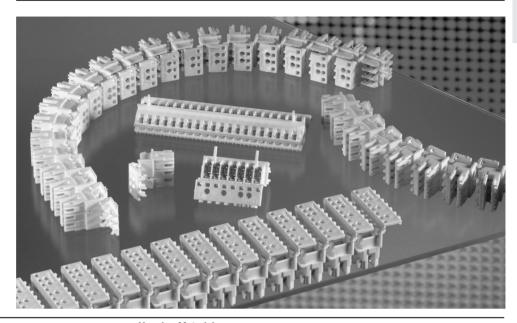


Dimensions are

millimetres over inches

### **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	Α	В	Reyling	Housing Colour: Natural	Contact Finish	r art i dilliber	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	4,928
12	27.5	32.4	R2.5/1-12-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-2	4,920
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	4,312
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	3,090
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	3,000
20	47.5	52.4	R2.5/1-20-	PA 6 GF, V-2	CuSn, tin plated	3-1534797-0	

No. of		nsions m)	Selectively Loaded	Housing Material: GWT, 750 °C *	Contact Material	Part Number	Package
Positions	Α	В	 Keying	Housing Colour: Natural	Contact Finish	r art ivumber	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

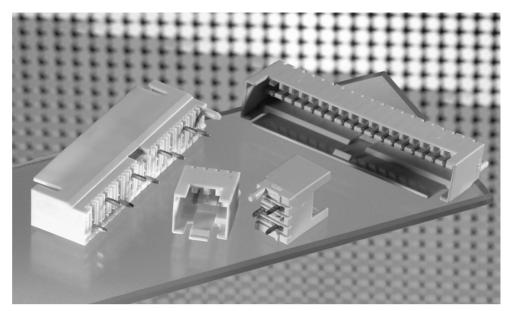
<sup>\*)</sup> According IEC 60695-2-1/1; GWT (Glow Wire Test) 750 °C without flame, look VDE M-Test Report.

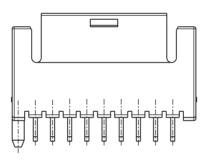
Note: Additional variants on request.

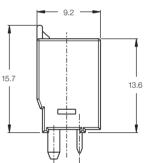
The connector keying and colour marking is done with the units on the workstation.

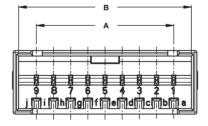
### Tab Headers 180°

AMP DUOPLUG 2.5 Mark II Tab Header 180°







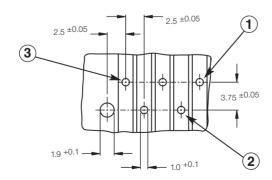


### **PC** Board Layout

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





METRIC
Dimensions are
millimetres over inches

Catalogue 1654742

Revised 5-04

### Tab Headers 180° (continued)

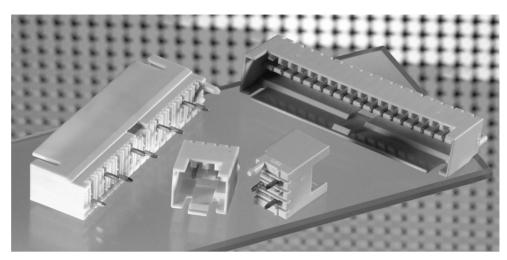
No. of	Dimensions (mm)		Housing	Housing Colour	Keying	Part Number	Package
Positions	Α	В	Material	riousing estour	itoying	Tab Header	Quantity
				natural	_	1-829866-3	
3	5.0	10.15	PBT-GF, V-0	grey	_	2-829866-3	416
				grey	b	3-829866-3	-
				natural	-	1-829866-4	
4	7.5	12.65	PBT-GF, V-0	grey	-	2-829866-4	- 352
				natural	d	1-829866-5	
_	40.0	15.15	DDT OF MA	grey	е	2-829966-5	-
5	10.0	15.15	PBT-GF, V-0	grey	-	3-829866-5	- 300
				grey	-	4-829866-5	_
0	10.5	17.05	DDT OF MA	natural	-	1-829866-6	050
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	-
	47.5	00.05	DDT OF MA	natural	-	1-829866-8	106
8	17.5	22.65	PBT-GF, V-0	grey	-	2-829966-8	- 196
	00.0	05.45	DDT OF MA	natural	-	1-829866-9	<b>—</b> 180
9	20.0	25.15	PBT-GF, V-0	grey	-	2-829966-9	
10	22.5	07.05	DDT OF MA	natural	-	1-829866-0	100
10		27.65	PBT-GF, V-0	grey	-	2-829966-0	- 168
	05.0	00.15	DDT OF MA	natural	-	1-829867-1	150
11	25.0	30.15	PBT-GF, V-0	grey	-	2-829867-1	- 150
	07.5		DDT OF MA	natural	-	1-829867-2	440
12	27.5	32.65	PBT-GF, V-0	grey	-	2-829867-2	- 140
10	00.0	00.15	DDT OF MA	natural	-	1-829867-3	140
13	30.0	32.15	PBT-GF, V-0	grey	-	2-829867-3	- 140
4.4	00.5	07.05	DDT OF MA	natural	-	1-829867-4	100
14	32.5	37.65	PBT-GF, V-0	grey	-	2-829867-4	- 128
15	05.0	40.45	DDT OF V O	natural	-	1-829867-5	400
15	35.0	40.15	PBT-GF, V-0	grey	-	2-829867-5	- 120
16	07.5	40.05	DDT OF V O	natural	-	1-829867-6	440
16	37.5	42.65	PBT-GF, V-0	grey	-	2-829867-6	- 112
17	40.0	4F 4F	DDT OF V O	natural	-	1-829867-7	104
17	40.0	45.15	PBT-GF, V-0	grey	-	2-829867-7	- 104
10	40.5	47.05	DDT OF V O	natural	-	1-829867-8	102
18	42.5	47.65	PBT-GF, V-0	grey	-	2-829867-8	
10	45.0	FO 15	DDT OF MA	natural	-	1-829867-9	00
19	45.0	50.15	PBT-GF, V-0	grey	-	2-829867-9	- 96
00	47.5	E0.05	DDT OF V O	natural	-	1-829867-0	00
20	47.5	52.65	PBT-GF, V-0	grey	_	2-829867-0	- 90

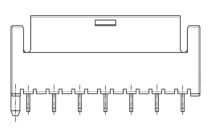
Preferred Types are printed bold.

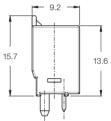
 $\textbf{Note:} \ \, \textbf{Additional keying variants available on request}$ 

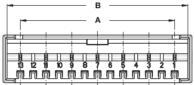
### Tab Headers 180° - Selectively Loaded

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







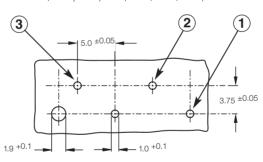


### **PC** Board Layout

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



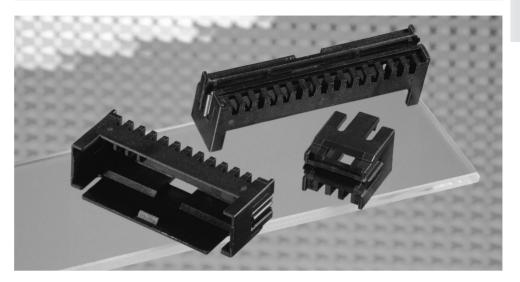
No. of	Dimensions		Tab Header	Housing Material		Package
Positions	A	nm) B	Selectively Loaded Keying	Housing Colour: Grey	Part Number	Quantity
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	224
9	20.0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

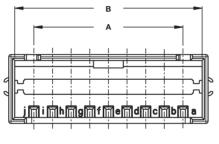
Note: Additional keying variants available on request.

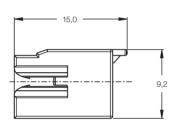
1024

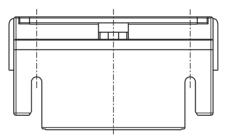
### **PC Board Frame**



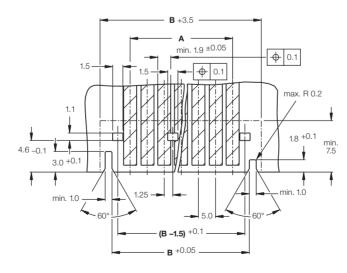








### **PC Board Layout**





Catalogue 1654742 Revised 5-04

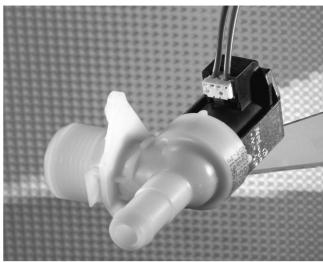
### PC Board Frame (continued)

No. of Positions	Dimensions (mm)		Housing	Housing Colour	Keying	Part Number
	Α	В	Material	-	, -	Tab Header
3	5.0	10.1	PA 6.6 GF, V-0	black	-	1-964575-3
			PA 6.6 GF, V-0    black	black	-	1-964575-4
4	7.5	12.6		black	b	2-964575-4
4	7.5			black	С	3-964575-4
				d	4-964575-4	
				black	-	1-964575-5
5	10.0	15.1	PA 6.6 GF, V-0	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
7				black	b, e, g	3-964575-7
				natural	b, e, g	4-964575-7
8			PA 6.6 GF, V-0	black	_	1-964575-8
	17.5	22.6		black	b, c, d, h	2-964575-8
	00.0	05.4	DA 0 0 05 1/ 0	black	_	1-964575-9
9	20.0	25.1	PA 6.6 GF, V-0	black	c, d, i	2-964575-9
	00.5	07.0	D1 0 0 0 5 1/ 0	black	_	1-964575-0
10	22.5	27.6	PA 6.6 GF, V-0	black	a, b, c, e, h, i, k	3-964575-0
				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
40	27.5	00.0	D1 0 0 0 5 1/ 5	natural	k	3-964576-2
12		32.6	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





### **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 mm<sup>2</sup> up to 0.5 mm<sup>2</sup> (AWG 22 up to AWG 20, AWM Style 1569/1007).

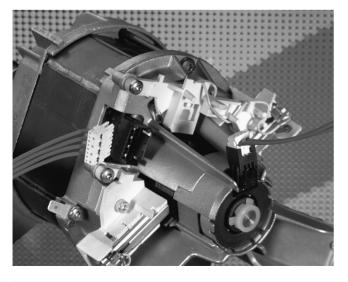
The cover provides very good contact protection and has openings for easy electrical inspection.

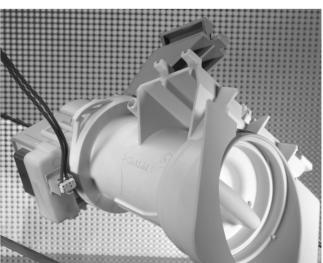
We offer a complete range of termination equipment from the hand tool to the

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.





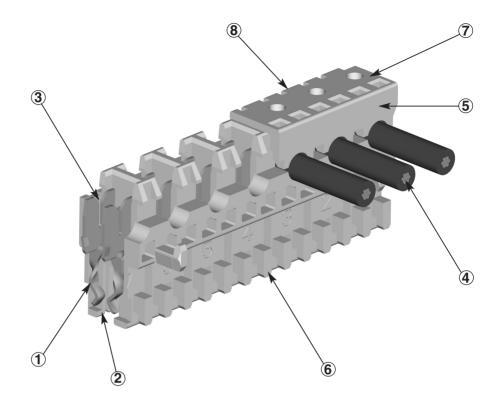
### **Technical Features**

### **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



■ UL recognised under File No. E 28476

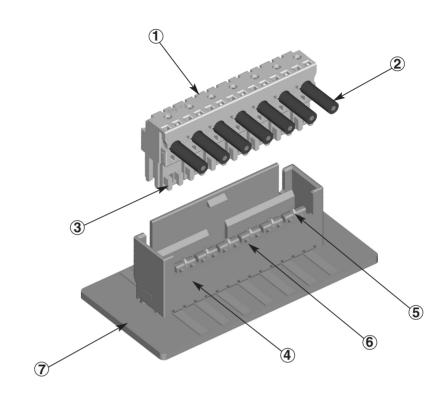


- Twisted contact provides high contact force without excessive mating force.
- 2 Very good contact protection eliminates stubbing problems.
- Wires are terminated via metal stuffer in tooling which ensures proper positioning of the wire in the IDC slot of contact.
- 4 Contacts are suitable for 7-stranded 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.
- Optional colour marking can be done during the termination process.

### Indirect and Direct Connection, 5.0 mm Centerline

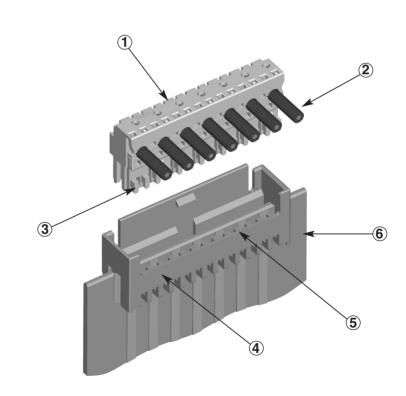
### **Indirect Connection**, 5.0 mm Centerline

- 1 Cover
- Wire
- 3 Keying Ribs
- Tab Header
- Tab Contact  $(1.5 \times 0.6 \text{ mm})$
- 6 Keying
- 7 PC Board

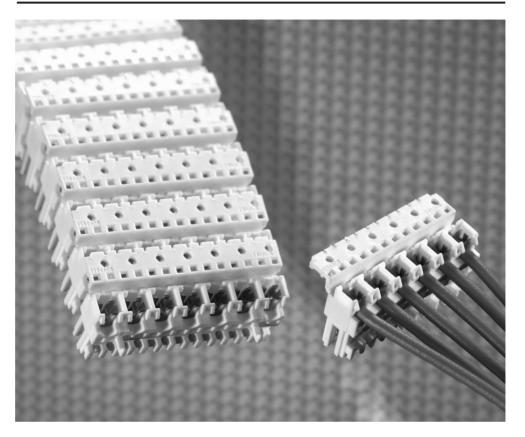


### **Direct Connection,** 5.0 mm Centerline

- 1 Cover
- 2 Wire
- 3 Keying Ribs
- PC Board Frame
- 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 $\Omega$ 

**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:** 

 $1.5 \pm 0.14 \text{ mm}$ 

### 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





### **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 mm<sup>2</sup>, 16-strands

### ■ Counter Part

### PC Board:

Single side and double side coated

### Pad:

 $0.35~\mu m$  x 1.9 mm, Copper, HAL, tin plated

### Tab Header:

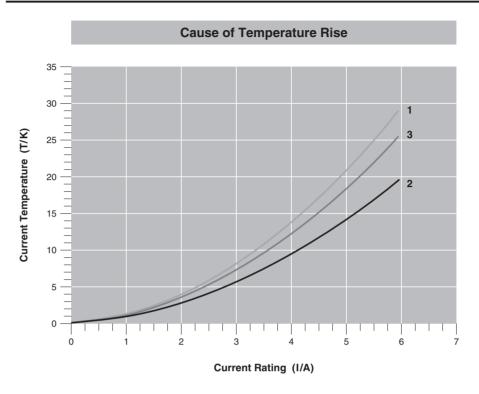
Pin 1.5 x 0.6 mm, CuZn 30, tin plated

### ■ Measurement:

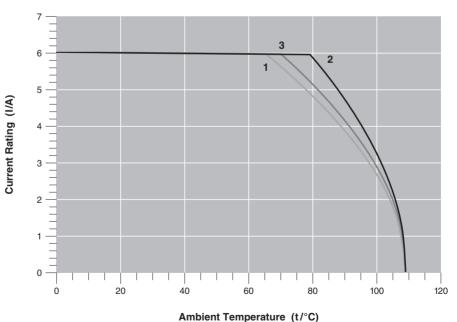
(1): CEM1, single side coated

(2): FR4, double side coated

(3): PBT-GF, Tab Header







### **AMP DUOPLUG Power IDC Connector System**

**METRIC** Dimensions are millimetres over inches

### **Keying Plan**

1394918-2 1534415-2

b c XXXX 1-1394918-2 1-1534415-2

С <u>ŘŘŘŘ</u> 2-1394918-2 2-1534415-2

b XXXX 1

3-1394918-2 3-1534415-2

<u>ŘŘŘŘ</u>

1394918-3 1534415-3

3

1-1394918-3 1-1534415-3



2-1394918-3 2-1534415-3



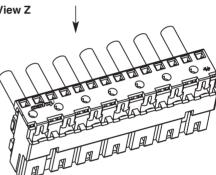
3-1394918-3 3-1534415-3



1394918-9 1534415-9



View Z



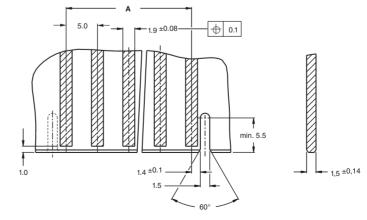
**Possible Keying** Example R2.5 / P-3b,d 1394918-3 1534415-3

Keying is done with units during application process.



### **PC Board Layout**

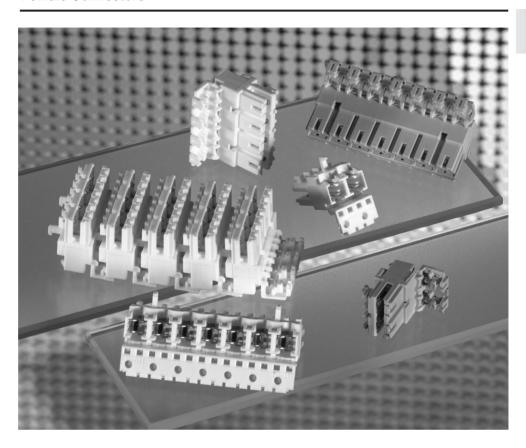
PC Board Layout keyed, **Connected only with Additional Guide Frame** 



### **Female Connectors**

**AMP DUOPLUG Power Female Connectors** 





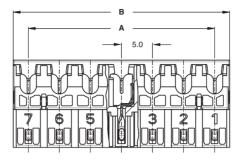
No. of Positions	Dimensions (mm)		Varian	Housing Material	Contact Material	B. d. N. orbo	Package		
	Α	В	. Keying	Housing Colour: Pale Grey	Contact Finish	Part Number	Quantity		
			R2.5 / P-2-	PA 6.6 V-0	CuNiSi, tin plated	0-1394918-2			
0	F 0	0.0	R2.5 / PL-2-	PA 6.6 V-0	CuNiSi, tin plated	1-1394918-2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

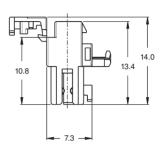
Note: Additional variants on request.

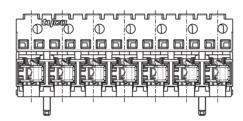
The connector keying and colour marking is done with the units on the workstation.

### 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	rait Nullipei			
		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			
		) 14.9	R2.5 / P-3-	PA 6 V-2	CuNiSi, tin plated	0-1534415-3	10.470		
3	10.0		R2.5 / PL-3-	PA 6 V-2	CuNiSi, tin plated	1-1534415-3			
3	10.0		.0 14.9	14.9	14.9	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		

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

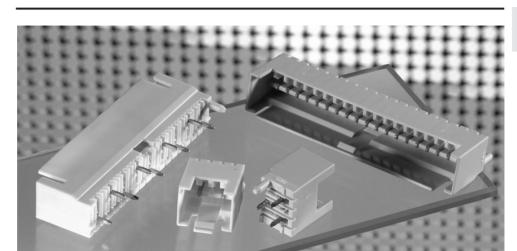
Note: Additional variants on request.

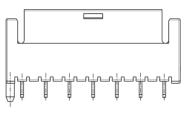
The connector keying and colour marking is done with the units on the workstation.

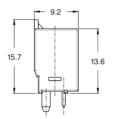
Dimensions are millimetres over inches

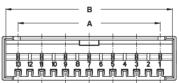
### Tab Headers 180°

Tab Header 180° for Use with AMP DUOPLUG Power





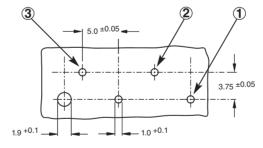






Solder Side View.

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

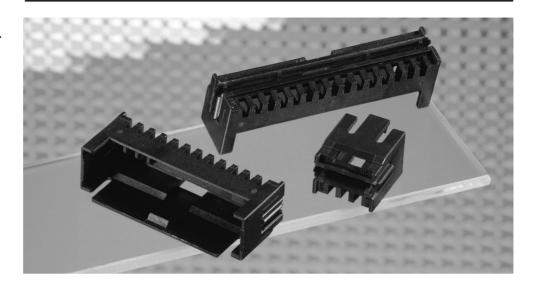


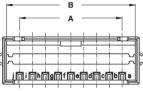
No. of	Dimensions (mm)		Tab Header Selectively Loaded	Housing Material	B. IN	Package
Positions	Α	В	Keying	Housing Colour: Grey	Part Number	Quantity
3	5.0	10.15	R2.5/2-2-	PBT-GF, V-0	1-1534787-3	416
5	10.0	15.15	R2.5/3-2-	PBT-GF, V-0	1-1534787-5	300
7	15.0	20.15	R2.5/4-2-	PBT-GF, V-0	1-1534787-7	224
9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

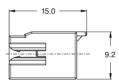
Note: Additional keying variants available on request.

### **PC Board Frame**

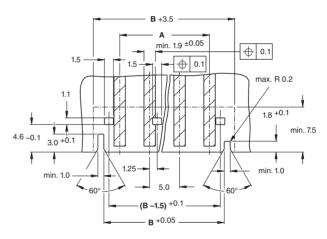
## PC Board Frame for Use with AMP DUOPLUG Power











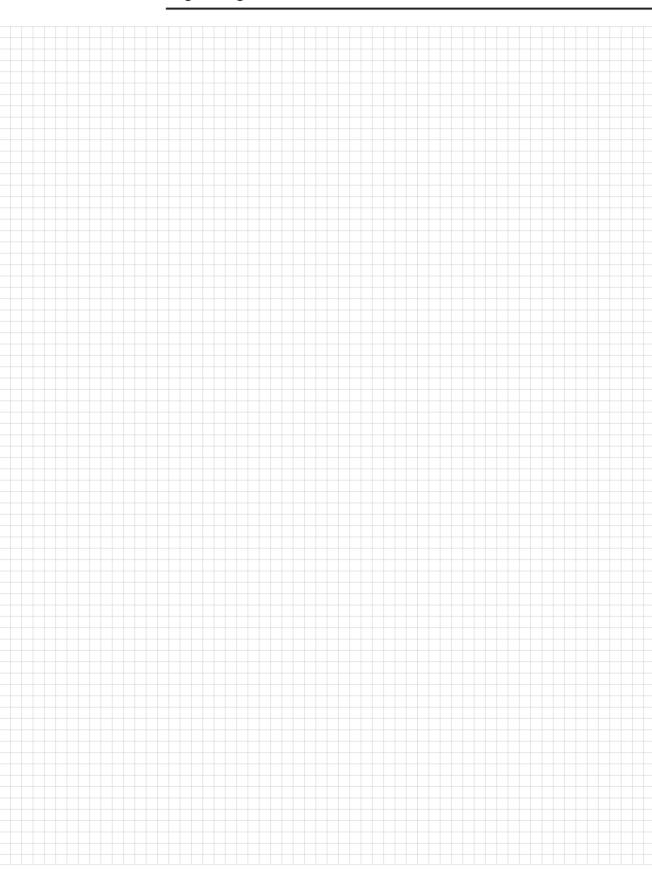
**PC Board Layout** 

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	
		15.1	black	-	1-964575-5	
5	10.0		black	d	2-964575-5	
			black	b, e	3-964575-5	
		20.1	black	-	1-964575-7	
-	15.0		black	d	2-964575-7	
7			black	b, e, g	3-964575-7	
			natural	b, e, g	4-964575-7	
•	20.0	20.0 25.1	black	-	1-964575-9	
9			black	c, d, i	2-964575-9	
	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**





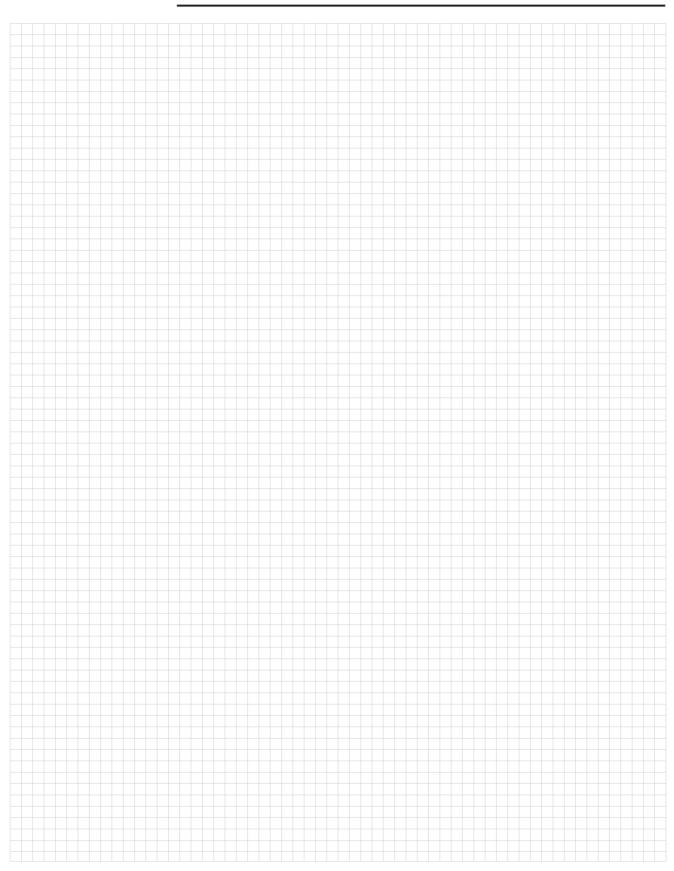




METRIC
Dimensions are millimetres over inches

Catalogue 1654742 Revised 5-04

### **Engineering Notes**



### **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>TE Connectivity</u>: 2-1740533-2