

Valukumpu Oy

Type D, IEC603, DIN 41612

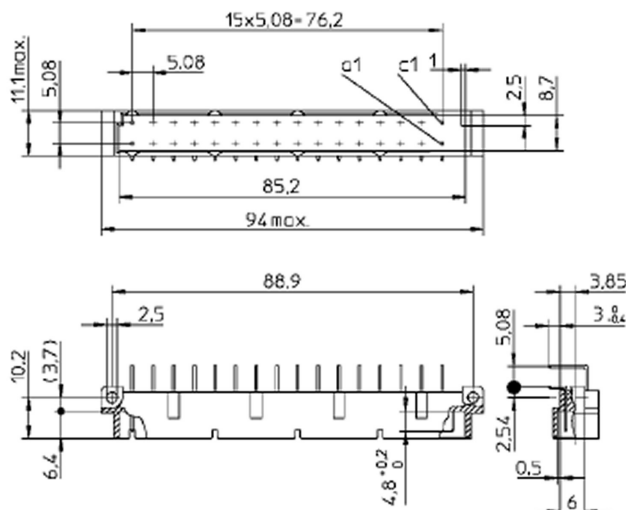
Two Part Connectors for PCB

General Description

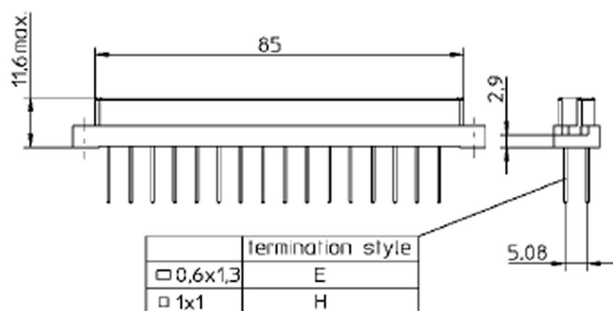
The DIN 41612 D type body offers a choice of five contact arrangements over 2 rows. It has an overall width of 94mm. It is available in both male and female connection types.

This is a PCB mounted connector and is available in a right angle mounted version for boards up to 1.6mm thick; a straight solder tail for boards up to 2.4mm thick and a wire wrap tail.

Each DIN 41612 connector is offered with a number of different contact and termination finishes.



Male Connector



Female Connector

Electrical Specification

| | |
|------------------------|---|
| Current Rating: | 5.5A at 20°C 4A at 80°C 2.5A at 100°C |
| Proof Voltage: | Contact/contact 1550Vrms Contact/Test Panel 1550Vrms |
| Contact Resistance: | ≤15 mΩ |
| Insulation Resistance: | ≥10 ⁶ MΩ |
| Connector Type: | Male/Female |

Materials

| | |
|------------------|------------------------------|
| Connector Body: | Glass fibre filled polyester |
| Female Contact: | Phosphor Bronze |
| Male Contact: | Copper Alloy |
| Contact Plating: | Ni / Au Ni / PdNi / Au |

Environmental

| | |
|---|------------------------|
| Temp Range: | -55 to +125°C |
| Flammability: | UL 94 V-O |
| Insertion Force: | 32 pole ≤30N |
| Retention Force: | ≥0.15 N / Contact pair |
| Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC603 | |

Quality

Contact surfaces mechanically polished
Dual-beam female contact profiled to trapezoidal form.

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|-----------|----------|----------|------------|----------|----------|----------|-----------|----------|----------|------------|----------|----------|----------|------------|------------|
| VK | - | D | 032 | M | S | - | C1 | A | - | 0,8 | / | 5 | - | 001 | -NP |
|-----------|----------|----------|------------|----------|----------|----------|-----------|----------|----------|------------|----------|----------|----------|------------|------------|

| | | |
|-----------------|-----------------------|----------|
| D | CONNECTOR TYPE | |
| Two row body 4A | | D |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 032 | CONTACT ARRANGEMENT AND NUMBER OF POSITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Special types | Z | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|----------|------------------------|----------|
| M | TYPE OF CONTACT | |
| Female | | F |
| Male | | M |

| | | |
|----------|----------------------------|----------|
| S | TYPE OF TERMINATION | |
| Solder | | S |
| Wrap | | W |

| | | |
|--|--|--|
| C1 | | |
| Complete connector with contact finish of gold | | |

| | | | |
|---|--------------------------|----------|----------|
| A | TERMINATION STYLE | | |
| | | F | M |
| Right angle solder tail for 1.6 mm thick boards | A | | |
| Straight solder tail for 2.4 mm thick boards | E | | |
| Wire wrap tail | H | | |

| | | |
|------------|------------------------------------|--|
| 0,8 | CONTACT FINISH | |
| 0,8 | 0.8 µm hard gold over 2 µm nickel | |
| 1,25 | 1.25 µm hard gold over 2 µm nickel | |
| 2,5 | 2.5 µm hard gold over 3 µm nickel | |
| ... | other platings on request | |

| | | |
|----------|---|--|
| 5 | TERMINATION FINISH | |
| 5 | 5 µm tin over nickel | |
| 1,25 | 1.25 µm gold over nickel on contact area (5mm from the end) | |
| 0,1 | 0.1 µm gold over nickel | |
| ... | other platings on request | |

| | | |
|------------------------------|----------------------------------|--|
| -001 | MARKING FOR SPECIAL TYPES | |
| Please contact manufacturer. | | |

| | | |
|--|--|--|
| -NP | | |
| Gold flash over nickel palladium over nickel | | |



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