### QUICK SELECTOR CHART

#### PCB CONNECTORS

<table>
<thead>
<tr>
<th>GRID</th>
<th>SOCKET CONNECTORS</th>
<th>PIN CONNECTORS</th>
<th>SQUARE PIN CONNECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.27 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 mm (*)</td>
<td>1.778 / 1.8 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATING PIN</td>
<td>dia. 2.54 mm</td>
<td>MATING PIN</td>
<td>dia. 0.76 mm (*)</td>
</tr>
</tbody>
</table>

#### GRID

<table>
<thead>
<tr>
<th>SINGLE ROW</th>
<th>DOUBLE ROW</th>
<th>TRIPLE ROW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mm</td>
<td>1.27 mm</td>
<td>2 mm (*)</td>
</tr>
</tbody>
</table>

#### SOCKET CONNECTORS

- **Straight solder tail**
- **Right angle solder tail**
- **Surface mount perpendicular floating pin**
- **Surface mount perpendicular gull-wing**
- **Surface mount parallel**
- **Solderless compliant press-fit**
- **Wire-wrap**
- **Carrier**

#### PIN CONNECTORS

- **Straight solder tail**
- **Right angle solder tail**
- **Surface mount perpendicular floating pin**
- **Surface mount perpendicular gull-wing**
- **Surface mount parallel**
- **Solderless compliant press-fit**

#### SQUARE PIN CONNECTORS

- **0.5 mm**
- **0.635 mm**

#### HEADERS / JUMPERS

- **Slotted head**
- **Turret head**
- **Solder cup**
- **Male jumpers**
- **Female jumpers**

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Due to technical progress, all information provided is subject to change without prior notice.
PCB CONNECTORS
GENERAL SPECIFICATIONS

The values listed below are general specs applying for PRECI-DIP socket and pin connectors. Please see individual catalog page for additional and product specific technical data.

**OPERATING TEMPERATURE RANGE**
-55 ... +125 °C

**CLIMATIC CATEGORY (IEC)**
55/125/21

**OPERATING HUMIDITY RANGE**
Annual mean 75%

**MAX. WORKING VOLTAGE**
100 V RMS / 150 VDC (2.54 mm grid)

PRECI-DIP products are recognized by Underwriters Laboratories Inc. and listed under “Connectors for Use in Data, Signal, Control and Power Applications”, File Nr. E174442.

**MECHANICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>CLIP RETENTION</th>
<th>Min. 40 N (no displacement under axial force applied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT (SLEEVE / CLIP) RETENTION</td>
<td>Min. 3.3 N acc. to MIL-DTL-83734, pt 4.6.4.2</td>
</tr>
</tbody>
</table>

**ELECTRICAL CHARACTERISTICS**

| INSULATION RESISTANCE BETWEEN ANY TWO ADJACENT CONTACTS | Min. 10'000 MΩ at 500 V ac |
| CAPACITANCE BETWEEN ANY TWO ADJACENT CONTACTS | Max. 1 pF |
| AIR AND CREEPAGE DISTANCES BETWEEN ANY TWO ADJACENT CONTACTS |

**SERIE** | 3xx/4xx/7xx | 80x | 83x | 85x | 86x |
| mm | 0.7 | 0.85 / 0.7 | 0.5 | 0.4 / 0.5 | 0.5 |

**ENVIRONMENTAL CHARACTERISTICS**
The sockets withstand the following environmental tests without mechanical and electrical defects:
- Dry heat steady state IEC 60512-11-9.11i / 60068-2-2.Bb: 125 °C, 1 h
- Damp heat cyclic IEC 60512-11-12.11m / 60068-2-30.Db: 25/55 °C, 90 – 100 %rH, 1 cycle of 24 h
- Cold steady state IEC 60512-11-10.11j / 60068-2-6.1a: -55 °C, 2 h
- Sinusoidal vibrations IEC 60512-6-4.6d / 60068-2-6.Fc: 10 to 500 Hz, 10 g, 1 octave/min., 10 cycles for each axis
- Shock IEC 60512-6-3.86c / 60068-2-27.Ea: 50 g, 11 ms, 3 shocks in three axis

During the above two tests, no contact interruption >50 ns does appear.

- Solderability J-STD-002A, Test A, 245 °C, 5 s, solder alloy SnAg3.8Cu0.7
- Resistance to soldering heat J-STD-020C, 260 °C, 20 s
- Moisture sensitivity J-STD-020C level 1
- Resistance to corrosion:
  1) Salt spray test IEC 60068-2-11.Ka: 48 h
  2) Sulfur dioxide (SO2) test IEC 60068-2-42.Kc: 96 h at 25 ppm SO2, 25 °C, 75 %rH

**SOLDERLESS COMPLIANT PRESS-FIT CHARACTERISTICS**

**PRESS-FIT CHARACTERISTICS MEASURED ACC. TO IEC 60352-5**

| Press-in force: | 90 N max. (at min. hole dia.) / 65 N typ. |
| Push-out force: | 30 N min. (at max. hole dia.) / 50 N typ. |
| Push-out 3rd cycle: | 20 N min. (at max. hole dia.) |

**PCB HOLE DIMENSIONS**

- 2 mm grid
  Finished hole Ø: 0.7 ± 0.03/-0.08 mm
  Drilled hole Ø: 0.8 ± 0.02 mm
- 2.54 mm grid
  Finished hole Ø: 1 ± 0.09/-0.06 mm
  Drilled hole Ø: 1.15 ± 0.02 mm

**PCB PLATING**

<table>
<thead>
<tr>
<th>PCB surface finish</th>
<th>Hole plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-15 μm tin over min. 25 μm copper</td>
<td></td>
</tr>
<tr>
<td>0.05-0.2 μm gold over 2.5-5 μm nickel</td>
<td></td>
</tr>
<tr>
<td>min. 25 μm copper</td>
<td></td>
</tr>
</tbody>
</table>

Due to technical progress, all information provided is subject to change without prior notice.
### TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
<td>Black glass filled polyester PCT-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-O</td>
</tr>
<tr>
<td><strong>SLEEVE</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONTACT CLIP (4 FINGER)</strong></td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td><strong>MATING PIN Ø</strong></td>
<td>0.36 to 0.46 mm</td>
</tr>
<tr>
<td><strong>FORCES</strong></td>
<td>0.25 N typ. insertion 0.15 N typ. withdrawal</td>
</tr>
<tr>
<td></td>
<td>(polished steel gauge Ø 0.40 mm)</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>1 A</td>
</tr>
<tr>
<td><strong>CONTACT RESISTANCE</strong></td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 500 Vrms</td>
</tr>
<tr>
<td><strong>COPLANARITY</strong></td>
<td>Max. 0.1 mm (measured on 25 mm long connectors)</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see page 45.

### ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 µm gold</td>
</tr>
</tbody>
</table>

**861-PP-NNN-10-001101**

Straight socket connector low profile, solder tail, single row

**AVAILABILITY FROM**

- 2 to 50 contacts
- (standard number of contacts: 50)

**861-PP-NNN-40-001101**

SMD socket connector, single row, parallel mount

**AVAILABILITY FROM**

- 2 to 50 contacts
- (standard number of contacts: 50)

For connectors having more than 24 contacts, the coplanarity issue is to be addressed specifically

See page 43

### SOCKET CONNECTORS 1 mm

SINGLE ROW / SOLDER TAIL / SURFACE MOUNT

Ultraminiature PCB socket connectors, solder tail and SMD parallel mount.

For connectors having more than 24 contacts, the coplanarity issue is to be addressed specifically. See page 43

- **861-87-NNN-10-001101** for a single row version with 8 pins becomes **861-87-008-10-001101**.

Other plating on request (see page 178 for plating specs). NNN number of poles. Replace NNN with the requested number of poles.
PIN CONNECTORS 1 mm
SINGLE ROW / SOLDER TAIL / SURFACE MOUNT

Ultraminiature PCB pin connectors, solder tail and SMD parallel mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

INSULATOR: Black glass filled polyester PCT-GF30-FR
FLAMMABILITY: UL 94V-O
CONTACT: Brass CuZn36Pb3 (C36000)
CONNECTING PIN Ø: 0.40 mm
MECHANICAL LIFE: Min. 500 cycles
RATED CURRENT: 1 A
DIELECTRIC STRENGTH: Min. 500 V RMS
COPLANARITY: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see page 44.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
</tbody>
</table>

860-10-NNN-10-001101
Straight pin connector low profile, solder tail, single row
AVAILABILITY FROM
2 to 50 contacts
(standard number of contacts: 50)

860-10-NNN-40-001101
SMD pin connector, single row, parallel mount
AVAILABILITY FROM
2 to 50 contacts
(standard number of contacts: 50)
For connectors having more than 24 contacts, the coplanarity issue is to be addressed specifically

See page 43
T & R Packaging

Other plating on request (see page 178 for plating specs). NNN number of poles. Replace NNN with the requested number of poles, e.g. 860-10-NNN-10-001101 for a single row version with 8 pins becomes 860-10-008-10-001101.

Due to technical progress, all information provided is subject to change without prior notice.
Ultraminiature PCB socket connectors, solder tail

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (3 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.38 to 0.50 mm
- **FORCES**: 0.5 N typ. insertion 0.2 N typ. withdrawal (polished steel gauge Ø 0.41 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **CONTACT RESISTANCE**: Max. 20 mΩ
- **DIELECTRIC STRENGTH**: Min. 500 V RMS

For corresponding pin connectors, see pages 51-54.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
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<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**PLATING CODE**

- **SLEEVE**: Tin Flash gold
- **CLIP**: 0.75 μm gold

**For corresponding pin connectors, see pages 51-54.**

**851-PP-NNN-10-001101**

- Straight socket connector, solder tail, single row
- **AVAILABILITY FROM**: 2 to 50 contacts
- (standard number of contacts: 25 and 50)

**853-PP-NNN-10-001101**

- Straight socket connector, solder tail, double row
- **AVAILABILITY FROM**: 4 to 100 contacts
- (standard number of contacts: 50 and 100)

**853-PP-NNN-10-002101**

- Straight socket connector, solder tail, double row with 2.54 mm row to row distance
- **AVAILABILITY FROM**: 4 to 100 contacts
- (standard number of contacts: 100)

**855-PP-NNN-10-001101**

- Straight socket connector, solder tail, triple row
- **AVAILABILITY FROM**: 9 to 150 contacts
- (standard number of contacts: 150)

Due to technical progress, all information provided is subject to change without prior notice.
Ultraminiature PCB socket connectors, solder tail

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
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<tr>
<td><strong>FLAMMABILITY</strong></td>
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<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td><strong>MATING PIN Ø</strong></td>
<td>0.38 to 0.50 mm</td>
</tr>
<tr>
<td><strong>FORCES</strong></td>
<td>0.5 N typ. insertion, 0.2 N typ. withdrawal (polished steel gauge Ø 0.41 mm)</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>1 A</td>
</tr>
<tr>
<td><strong>CONTACT RESISTANCE</strong></td>
<td>Max. 20 mΩ</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 500 V RMS</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see pages 51-54.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 µm gold</td>
</tr>
</tbody>
</table>

851-PP-009-10-477101

Straight socket connector height 8.8 mm, solder tail, single row
Standard number of contacts: 9
Please consult for other pin number

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 1.27 mm
SINGLE ROW / DOUBLE ROW / TRIPLE ROW / SOLDER TAIL, RIGHT ANGLE

Ultraminiature PCB socket connectors, solder tail right angle.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

INSULATOR
Black glass filled polyester PCT-GF30-FR

FLAMMABILITY
UL 94V-O

SLEEVE
Brass CuZn36Pb3 (C36000)

CONTACT CLIP (3 FINGER)
Beryllium copper (C17200)

MATING PIN Ø
0.38 to 0.50 mm

FORCES
0.5 N typ. insertion 0.2 N typ. withdrawal (polished steel gauge Ø 0.41 mm)

MECHANICAL LIFE
Min. 500 cycles

RATED CURRENT
1 A

CONTACT RESISTANCE
Max. 20 mΩ

DIELECTRIC STRENGTH
Min. 500 Vrms

For corresponding pin connectors, see pages 51-54.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

851-PP-NNN-20-001101
Right angle socket connector, solder tail, single row
AVAILABILITY FROM 2 to 50 contacts
(standard number of contacts: 25 and 50)

853-PP-NNN-20-001101
Right angle socket connector, solder tail, double row
AVAILABILITY FROM 4 to 100 contacts
(standard number of contacts: 50 and 100)

853-PP-NNN-20-002101
Right angle socket connector, solder tail, double row with 2.54 mm row to row distance
AVAILABILITY FROM 4 to 100 contacts
(standard number of contacts: 100)

855-PP-NNN-20-001101
Right angle receptacle, solder tail, triple row
AVAILABILITY FROM 9 to 150 contacts
(standard number of contacts: 150)

Other plating on request (see page 178 for plating specs).
NNN number of poles. Replace NNN with the requested number of poles, e.g. 851-87-NNN-20-001101 for a single row version with 8 pins becomes 851-87-008-20-001101.
Ultraminiature PCB socket connectors, SMD mount.

TECHNICAL SPECIFICATIONS (For general specs, see page 43)

**INSULATOR**
Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
UL 94V-0

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (3 FINGER)**
Beryllium copper (C17200)

**MATING PIN Ø**
0.35 to 0.50 mm

**FORCES**
0.5 N typ. insertion 0.2 N typ. withdrawal
(polished steel gauge Ø 0.41 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**CONTACT RESISTANCE**
Max. 20 mΩ

**DIELECTRIC STRENGTH**
Min. 500 V RMS

**COPLANARITY**
Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 51-54.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
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<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

851-PP-NNN-30-001101
SMD socket connector, single row, perpendicular mount

AVAILABILITY FROM
3 to 50 contacts
(for standard number of contacts: 25 and 50)

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically

851-PP-NNN-30-136101
SMD socket connector, single row, perpendicular mount with 2 positioning pins

AVAILABILITY FROM
5 to 50 contacts
(for standard number of contacts: 25 and 50)

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 851-83-NNN-30-001101 for a single row version with 8 pins becomes 851-83-008-30-001101.

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SOCKET CONNECTORS 1.27 mm
SINGLE ROW / DOUBLE ROW / SURFACE MOUNT

Ultraminiature PCB socket connectors, SMD mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.38 to 0.50 mm
- **FORCES**:
  - 0.5 N typ. insertion
  - 0.2 N typ. withdrawal
  (polished steel gauge Ø 0.41 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **CONTACT RESISTANCE**: Max. 20 mΩ
- **DIELECTRIC STRENGTH**: Min. 500 V RMS
- **COPLANARITY**: SMD TERMINATIONS
  - Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 51-54.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

853-PP-NNN-30-051101
SMD socket connector, double row with 2.54 mm row to row distance, perpendicular mount with 2 positioning pins

- **AVAILABILITY FROM**:
  - 4 to 100 contacts
  (standard number of contacts: 100)

For connectors having more than 19 contacts per row, the coplanarity issue is to be addressed specifically.

851-PP-NNN-40-001101
SMD socket connector, single row, parallel mount with long solder termination

- **AVAILABILITY FROM**:
  - 2 to 50 contacts
  (standard number of contacts: 25 and 50)

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically.

851-PP-NNN-40-252101
SMD socket connector, single row, parallel mount

- **AVAILABILITY FROM**:
  - 2 to 50 contacts
  (standard number of contacts: 25 and 50)

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically.

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 851-83-NNN-40-001101 for a single row version with 8 pins becomes 851-83-008-40-001101.

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Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 1.27 mm
SINGLE ROW / DOUBLE ROW / TRIPLE ROW / SOLDER TAIL

Ultraminiature PCB pin connectors, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.41 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 46-50.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

For plating on request, see page 178 for plating specs.

NNN number of poles. Replace NNN with the requested number of poles, e.g. 852-10-NNN-10-001101 for a double row version with 16 pins becomes 852-10-016-10-001101.

850-PP-NNN-10-001101
Straight pin connector, solder tail, single row

**AVAILABILITY FROM**
2 to 50 contacts
(standard number of contacts: 25 and 50)

852-PP-NNN-10-001101
Straight pin connector, solder tail, double row

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 50 and 100)

852-PP-NNN-10-002101
Straight pin connector, solder tail, double row with 2.54 mm row to row distance

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 100)

854-PP-NNN-10-001101
Straight pin connector, solder tail, triple row

**AVAILABILITY FROM**
9 to 150 contacts
(standard number of contacts: 150)

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 1.27 mm
SINGLE ROW / DOUBLE ROW / TRIPLE ROW / SOLDER TAIL, RIGHT ANGLE

Ultraminiature PCB pin connectors, solder tail, right angle.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)
- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.41 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 46-50.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 852-10-\_NNN-20-001101 for a double row version with 16 pins becomes 852-10-\_016-20-001101.

---

**850-PP-NNN-20-001101**
Right angle pin connector, solder tail, single row
- **AVAILABILITY FROM**: 2 to 50 contacts (standard number of contacts: 25 and 50)

**852-PP-NNN-20-001101**
Right angle pin connector, solder tail, double row
- **AVAILABILITY FROM**: 4 to 100 contacts (standard number of contacts: 50 and 100)

**852-PP-NNN-20-002101**
Right angle pin connector, solder tail, double row with 2.54 mm row to row distance
- **AVAILABILITY FROM**: 4 to 100 contacts (standard number of contacts: 100)

**854-PP-NNN-20-001101**
Right angle pin connector, solder tail, triple row
- **AVAILABILITY FROM**: 9 to 150 contacts (standard number of contacts: 150)

---

Due to technical progress, all information provided is subject to change without prior notice.
Technological PCB pin connectors, SMD mount.

### Technical Specifications

- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-O
- **Contact**: Brass CuZn36Pb3 (C36000)
- **Connecting Pin Ø**: 0.41 mm
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 1 A
- **Dielectric Strength**: Min. 1'000 V RMS
- **Coplanarity SMD Terminations**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 46-50.

### Ordering Information

- **RoHS Compliant Parts**
- **PP Plating Code**
  - 10: 0.25 μm gold
  - 80: Tin

**Note**: Other plating on request (see page 178 for plating specs).

**NNN Number of Poles**: Replace NNN with the requested number of poles, e.g., 852-10-NNN-30-001101 for a double row version with 16 pins becomes 852-10-016-30-001101.

### PCB Connectors

- **850-PP-NNN-30-001101**
  - SMD pin connector, single row, perpendicular mount
  - **Availability From**: 3 to 50 contacts
  - (standard number of contacts: 25 and 50)
  - For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically
  - **T & R Packaging**

- **852-PP-NNN-30-001101**
  - SMD pin connector, double row, perpendicular mount
  - **Availability From**: 4 to 100 contacts
  - (standard number of contacts: 50 and 100)
  - For connectors having more than 19 contacts per row, the coplanarity issue is to be addressed specifically
  - **T & R Packaging**

- **852-PP-NNN-30-002101**
  - SMD pin connector, double row with 2.54 mm row to row distance, perpendicular mount
  - **Availability From**: 4 to 100 contacts
  - (standard number of contacts: 100)
  - For connectors having more than 19 contacts per row, the coplanarity issue is to be addressed specifically
  - **T & R Packaging**

- **850-PP-NNN-30-135101**
  - SMD pin connector, single row, perpendicular mount with 2 positioning pins
  - **Availability From**: 5 to 50 contacts
  - (standard number of contacts: 25 and 50)
  - For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically
  - **T & R Packaging**

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 1.27 mm
SINGLE ROW / DOUBLE ROW / SURFACE MOUNT

Ultraminiature PCB pin connectors, SMD mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.41 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms
- **COPLANARITY SMD TERMINATIONS**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 46-50.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs). NNN number of poles. Replace NNN with the requested number of poles, e.g., 850-10-NNN-40-001101 for a single row version with 16 pins becomes 850-10-016-40-001101.

852-PP-NNN-30-051101
SMD pin connector, double row with 2.54 mm row to row distance, perpendicular mount with 2 positioning pins

**AVAILABILITY FROM**: 4 to 100 contacts

For connectors having more than 19 contacts per row, the coplanarity issue is to be addressed specifically

850-PP-NNN-40-001101
SMD pin connector, single row, parallel mount with long solder termination

**AVAILABILITY FROM**: 2 to 50 contacts

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically

850-PP-NNN-40-251101
SMD pin connector, single row, parallel mount short solder termination and wider insulator for easier pick and place

**AVAILABILITY FROM**: 2 to 50 contacts

For connectors having more than 19 contacts, the coplanarity issue is to be addressed specifically

See page 43

T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, with reduced grid spacing 1.778 and 1.8 mm, solder tail.

**TECHNICAL SPECIFICATIONS**

**INSULATOR**
Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
UL 94V-O

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (4 FINGER)**
Beryllium copper (C17200)

**MATING PIN Ø**
0.40 to 0.56 mm

**FORCES**
2 N typ. insertion
1 N typ. withdrawal
(polished steel gauge Ø 0.43 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
1 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 V RMS

For corresponding pin connectors, see page 56.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**317-PP-1NN-41-005101**
Straight socket connector, single row, grid spacing 1.778 mm

**AVAILABILITY FROM**
2 to 38 contacts
(standard number of contacts: 38)

**317-PP-1NN-41-022101**
Straight socket connector elevated, single row, grid spacing 1.778 mm

**AVAILABILITY FROM**
2 to 38 contacts
(standard number of contacts: 38)

**317-PP-1NN-41-026101**
Straight socket connector elevated, single row, grid spacing 1.778 mm

**AVAILABILITY FROM**
2 to 38 contacts
(standard number of contacts: 38)

**317-PP-1NN-01-687101**
Straight socket connector, single row, grid spacing 1.8 mm for LCD-displays

**AVAILABILITY FROM**
2 to 42 contacts
(standard number of contacts: 42)

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 1.778 mm
SINGLE ROW / SOLDER TAIL

PCB pin connectors, solder tail with reduced pin spacing 1.778 mm.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding socket connectors, see page 55.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NN number of poles.** Replace **NN** with the requested number of poles, e.g. **350-10-NN-00-012101** for a single row version with 8 pins becomes **350-10-108-00-012101**.

---

**350-PP-1NN-00-012101**

Straight pin connector, single row, grid spacing 1.778 mm

**AVAILABILITY FROM**: 2 to 38 contacts

(standard number of contacts: 38)

---

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / SOLDER TAIL

"Hard metric" PCB socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (for general specs, see page 43)

**INSULATOR**
Black glass filled polymer LCP-GF30-FR

**FLAMMABILITY**
UL 94V-0

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (6 FINGER)**
Beryllium copper (C17200)

**MATING PINS**
Ø 0.40 to 0.66 mm, Ø 0.50 mm

**FORCES**
0.7 N typ. insertion, 0.4 N typ. withdrawal (polished steel gauge Ø 0.46 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 V RMS

For corresponding pin connectors, see pages 64-68.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

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<th>PP PLATING CODE</th>
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<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 833-87-NNN-10-01101 for a double row version with 16 pins becomes 833-87-016-10-01101.

**831-PP-NNN-10-273101**
Straight socket connector, low profile height 2.8 mm, solder tail, single row

**AVAILABILITY FROM**
2 to 50 contacts
(standard number of contacts: 50)

**833-PP-NNN-10-273101**
Straight socket connector, low profile height 2.8 mm, solder tail, double row

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 100)

**831-PP-NNN-10-001101**
Straight socket connector, height 4.2 mm, solder tail, single row

**AVAILABILITY FROM**
2 to 50 contacts
(standard number of contacts: 50)

**833-PP-NNN-10-001101**
Straight socket connector, height 4.2 mm, solder tail, double row

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 100)

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / SOLDER TAIL

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

**INSULATOR**
Black glass filled polymer LCP-GF30-FR (PCT-GF30-FR for 833...10-457101)

**FLAMMABILITY**
UL 94V-O

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (6 FINGER)**
Beryllium copper (C17200)

**MATING PINS**
Ø 0.40 to 0.56 mm, 0.50 mm

**FORCES**
0.7 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.46 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 V RMS

For corresponding pin connectors, see pages 64-68.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
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<th>PP PLATING CODE</th>
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<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**831-PP-NNN-10-230101**
Straight socket connector, height 4.2 mm, with clinched (right/left) solder tails, single row
AVAILABILITY FROM 3 to 50 contacts (standard number of contacts: 50)

**833-PP-NNN-10-453101**
Straight socket connector, height 8 mm, solder tail, double row
AVAILABILITY FROM 4 to 100 contacts (standard number of contacts: 100)

**833-PP-NNN-10-457101**
Straight socket connector, height 10.4 mm, solder tail, double row
AVAILABILITY FROM 4 to 50 contacts (standard number of contacts: 50)

**833-PP-NNN-10-287101**
Straight socket connector, height 11.5 mm, solder tail, double row
AVAILABILITY FROM 4 to 100 contacts (standard number of contacts: 100)

**Other plating on request (see page 178 for plating specs).**

**NNN number of poles.** Replace NNN with the requested number of poles, e.g., 833-87-NNN-10-453101 for a double row version with 16 pins becomes 833-87-016-10-453101.

Due to technical progress, all information provided is subject to change without prior notice.
**SOCKET CONNECTORS 2 mm**

**SINGLE ROW / DOUBLE ROW / SOLDER TAIL**

"Hard metric" PCB socket connectors, solder tail, polarised.

### TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polymer LCP-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.40 to 0.66 mm, Ø 0.50 mm
- **FORCES**: 0.7 N typ. insertion, 0.4 N typ. withdrawal (polished steel gauge Ø 0.46 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1’000 Vrms

For corresponding pin connectors, see pages 64-68.

### ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
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<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**831-PP-NNN-10-242101**

Straight socket connector height 4.55 mm, solder tail, single row, polarised

**AVAILABILITY FROM**

- 22 contacts
- Other pin number on request

**833-PP-NNN-10-245101**

Straight socket connector height 4.55 mm, solder tail, double row, polarised

**AVAILABILITY FROM**

- 26 and 44 contacts
- Other pin number on request

Other plating on request (see page 178 for plating specs). NNN number of poles. Replace NNN with the requested number of poles, e.g. 833-87-NNN-10-245101 for a double row version with 26 pins becomes 833-87-026-10-245101.

---

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / SOLDER TAIL

"Hard metric" PCB socket connectors right angle, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

<table>
<thead>
<tr>
<th>INSULATOR</th>
<th>Black glass filled polymer LCP-GF30-FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>UL 94V-O</td>
</tr>
<tr>
<td>SLEEVE</td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td>CONTACT CLIP (6 FINGER)</td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td>MATING PINS</td>
<td>Ø 0.40 to 0.66 mm, 0.50 mm</td>
</tr>
<tr>
<td>FORCES</td>
<td>0.7 N typ. insertion 0.4 N typ. withdrawal (polished steel gauge Ø 0.46 mm)</td>
</tr>
<tr>
<td>MECHANICAL LIFE</td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td>RATED CURRENT</td>
<td>3 A</td>
</tr>
<tr>
<td>CONTACT RESISTANCE</td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td>DIELECTRIC STRENGTH</td>
<td>Min. 1'000 Vams</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see pages 64-68.

ORDERING INFORMATION ROHS COMPLIANT PARTS

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<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

831-PP-NNN-20-001101
Right angle socket connector, solder tail, single row
AVAILABILITY FROM 2 to 50 contacts (standard number of contacts: 50)

833-PP-NNN-20-001101
Right angle socket connector, solder tail, double row
AVAILABILITY FROM 4 to 100 contacts (standard number of contacts: 100)

Other plating on request (see page 178 for plating specs).
NNN number of poles. Replace NNN with the requested number of poles, e.g., 833-87-016-20-001101 for a double row version with 16 pins becomes 833-87-016-20-001101.
**TECHNICAL SPECIFICATIONS**

**INSULATOR**
Black glass filled polymer LCP-GF30-FR

**FLAMMABILITY**
UL 94V-O

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (6 FINGER)**
Beryllium copper (C17200)

**MATING PINS**
Ø 0.40 to 0.56 mm, Ø 0.50 mm

**FORCES**
0.7 N typ. insertion, 0.4 N typ. withdrawal (polished steel gauge Ø 0.46 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 V RMS

**COPLANARITY**
SMD TERMINATIONS
Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 64–68.

### ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
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<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**831-PP-NNN-30-001101**
SMD socket connector, single row, perpendicular mount

**AVAILABILITY FROM**
3 to 50 contacts
(standard number of contacts: 50)

For connectors having more than 12 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

**833-PP-NNN-30-001101**
SMD socket connector, double row, perpendicular mount

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 100)

For connectors having more than 12 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

**831-PP-NNN-30-242101**
SMD socket connector, single row, perpendicular mount, polarised

**AVAILABILITY**
22 contacts
Other pin number on request
For connectors having more than 12 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

**833-PP-NNN-30-245101**
SMD socket connector, double row, perpendicular mount, polarised

**AVAILABILITY FROM**
26 and 44 contacts
Other pin number on request
For connectors having more than 12 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
TECHNICAL SPECIFICATIONS  
**INSULATOR**  
Black glass filled polymer LCP-GF30-FR  
(PCT-GF30-FR for 837...30-291101)

**FLAMMABILITY**  
UL 94V-0

**SLEEVE**  
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (6 FINGER)**  
Beryllium copper (C17200)

**MATING PINS**  
Ø 0.40 to 0.66 mm, Ø 0.50 mm

**FORCES**  
0.7 N typ. insertion, 0.6 N typ. withdrawal  
(polished steel gauge Ø 0.46 mm)

**MECHANICAL LIFE**  
Min. 500 cycles

**RATED CURRENT**  
3 A

**CONTACT RESISTANCE**  
Max. 10 mΩ

**DIELECTRIC STRENGTH**  
Min. 1'000 Vrms

**COPLANARITY**  
SMD TERMINATIONS  
Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 64-68.

**ORDERING INFORMATION**  
**ROHS COMPLIANT PARTS**

<table>
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<tr>
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<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**837-83-NNN-30-291101**  
SMD socket connector, 4 row, perpendicular mount, floating pin  
**AVAILABILITY**  
72 and 200 contacts  
Other pin number on request

**831-PP-NNN-40-001101**  
SMD socket connector, single row, parallel mount  
**AVAILABILITY FROM**  
2 to 50 contacts  
(standard number of contacts: 50)  
For connectors having more than 12 contacts,  
the coplanarity issue is to be addressed specifically

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / PRESS-FIT

"Hard metric" PCB socket connectors, solderless press-fit mount.

TECHNICAL SPECIFICATIONS
(FOR GENERAL SPECS, SEE PAGE 43)

**INSULATOR**
Black glass filled polymer LCP-GF30-FR

**FLAMMABILITY**
UL 94V-0

**SLEEVE**
Bronze CuSn4Pb4Zn4 (C54400)

**CONTACT CLIP (6 FINGER)**
Beryllium copper (C17200)

**MATING PINS**
Ø 0.40 to 0.66 mm, 0.50 mm

**FORCES**
0.7 N typ. insertion, 0.4 N typ. withdrawal
(polished steel gauge Ø 0.46 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 V RMS

**PCB HOLE Ø**
0.7 ±0.07/-0.05 mm finished (0.8 ±0.025 mm drill)

For corresponding pin connectors, see pages 64-68.

ORDERING INFORMATION
ROHS COMPLIANT PARTS

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</tr>
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<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**831-PP-NNN-64-001101**
Press-fit socket connector, single row, compliant pin for PCB thickness 1.5 to 2 mm

**AVAILABILITY FROM**
2 to 50 contacts

**N** (standard number of contacts: 50)

**833-PP-NNN-64-001101**
Press-fit socket connector, double row, compliant pin for PCB thickness 1.5 to 2 mm

**AVAILABILITY FROM**
4 to 100 contacts

**N** (standard number of contacts: 100)

**831-PP-NNN-64-242101**
Press-fit socket connector polarised, single row, compliant pin for PCB thickness 1.5 to 2 mm

**AVAILABILITY**
22 contacts

Other pin number on request

**833-PP-NNN-64-245101**
Press-fit socket connector polarised, double row, compliant pin for PCB thickness 1.5 to 2 mm

**AVAILABILITY**
26 and 44 contacts

Other pin number on request

Due to technical progress, all information provided is subject to change without prior notice.
**PIN CONNECTORS 2 mm**

**SINGLE ROW / DOUBLE ROW / SOLDER TAIL**

**TECHNICAL SPECIFICATIONS**

*(FOR GENERAL SPECS, SEE PAGE 43)*

- **INSULATOR**: Black glass filled polymer LCP-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 57-63.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 830/832...12-002101 series

Other plating on request (see page 178 for plating specs).

**NNN number of poles. Replace NNN with the requested number of poles, e.g. 830-10-NNN-10-001101 for a single row version with 8 pins becomes 830-10-008-16-001101.**

---

**830-PP-NNN-10-001101**

Straight pin connector, solder tail, single row

**AVAILABILITY FROM**

2 to 50 contacts

(standard number of contacts: 50)

---

**832-PP-NNN-10-001101**

Straight pin connector, solder tail, double row

**AVAILABILITY FROM**

4 to 100 contacts

(standard number of contacts: 100)

---

**830-V3-NNN-12-002101**

Straight pin connector, solder tail, single row, shrouded and polarised

**AVAILABILITY**

22 contacts

Other pin number on request

---

**832-V3-NNN-12-002101**

Straight pin connector, solder tail, double row, shrouded and polarised

**AVAILABILITY**

26 and 44 contacts

Other pin number on request

---

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**SALES@PRECIDIP.COM**

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / SOLDER TAIL

**TECHNICAL SPECIFICATIONS** (for general specs, see page 43)

- **INSULATOR**: Black glass filled polymer LCP-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 57-63.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 830/832...22-002101 series

Other plating on request (see page 178 for plating specs).

**NNN number of poles**. Replace **NNN** with the requested number of poles, e.g., 830-10-NNN-20-001101 for a single row version with 8 pins becomes 830-10-008-20-001101.

---

**830-PP-NNN-20-001101**
Right angle pin connector, solder tail, single row
**AVAILABILITY FROM** 2 to 50 contacts
(standard number of contacts: 50)

---

**832-PP-NNN-20-001101**
Right angle pin connector, solder tail, double row
**AVAILABILITY FROM** 4 to 100 contacts
(standard number of contacts: 100)

---

**830-V3-NNN-22-002101**
Right angle pin connector, solder tail, single row, shrouded and polarised
**AVAILABILITY** 22 contacts
Other pin number on request

---

**832-V3-NNN-22-002101**
Right angle pin connector, solder tail, double row, shrouded and polarised
**AVAILABILITY** 26 and 44 contacts
Other pin number on request

---

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2 mm
SINGLE ROW / DOUBLE ROW / SURFACE MOUNT

“Hard metric” PCB pin connectors, SMD mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

**INSULATOR**
- Black glass filled polymer LCP-GF30-FR

**FLAMMABILITY**
- UL 94V-O

**CONTACT**
- Brass CuZn36Pb3 (C36000)

**CONNECTING PIN Ø**
- 0.47 mm

**MECHANICAL LIFE**
- Min. 500 cycles

**RATED CURRENT**
- 3 A

**DIELECTRIC STRENGTH**
- Min. 1’000 Vrms

**COPLANARITY**
- SMD TERMINATIONS: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 57-63.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 830/832...32-002101 series

Other plating on request (see page 178 for plating specs).

**NNN number of poles.** Replace **NNN** with the requested number of poles, e.g. 830-10-**NNN**-30-001101 for a single row version with 8 pins becomes 830-10-**008**-30-001101.

---

830-**PP-NNN-30-001101**
SMD pin connector, single row, perpendicular mount

**AVAILABILITY FROM**
- 3 to 50 contacts
  - (standard number of contacts: 50)

For connectors having more than 12 contacts, the coplanarity issue is to be addressed specifically

See page 43

T & R Packaging

832-**PP-NNN-30-001101**
SMD pin connector, double row, perpendicular mount

**AVAILABILITY FROM**
- 4 to 100 contacts
  - (Standard number of contacts: 100)

For connectors having more than 12 contacts per row, the coplanarity issue is to be addressed specifically

See page 43

T & R Packaging

830-**V3-NNN-32-002101**
SMD pin connector, single row, perpendicular mount, shrouded and polarised

**AVAILABILITY**
- 22 contacts
  - Other pin number on request

For connectors having more than 12 contacts per row, the coplanarity issue is to be addressed specifically

See page 43

T & R Packaging

832-**V3-NNN-32-002101**
SMD pin connector, double row, perpendicular mount, shrouded and polarised

**AVAILABILITY**
- 26 and 44 contacts
  - Other pin number on request

For connectors having more than 12 contacts per row, the coplanarity issue is to be addressed specifically

See page 43

T & R Packaging

---

Due to technical progress, all information provided is subject to change without prior notice.
"Hard metric" PCB pin connectors, SMD mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

INSULATOR: Black glass filled polymer LCP-GF30-FR
FLAMMABILITY: UL 94V-O
CONTACT: Brass CuZn36Pb3 (C36000)
CONNECTING PIN Ø: 0.47 mm
MECHANICAL LIFE: Min. 500 cycles
RATED CURRENT: 3 A
DIELECTRIC STRENGTH: Min. 1'000 Vrms
COPLANARITY: SMD TERMINATIONS Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 57-63.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 830-10-NNN-40-001101 for a single row version with 8 pins becomes 830-10-008-40-001101.

830-PP-NNN-40-001101
SMD pin connector, single row, parallel mount

AVAILABILITY FROM 2 to 50 contacts
(standard number of contacts: 50)
For connectors having more than 12 contacts, the coplanarity issue is to be addressed specifically

See page 43
T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
### PIN CONNECTORS 2 mm

**SQUARE PIN** 0.5 mm / SINGLE ROW / DOUBLE ROW / SOLDER TAIL

Square pin headers, solder tail.

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
<td>Black glass filled polyamide PA-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-0</td>
</tr>
<tr>
<td><strong>CONTACT</strong></td>
<td>Brass</td>
</tr>
<tr>
<td><strong>CONNECTING PIN</strong></td>
<td>0.5 mm</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 100 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>1 A</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 500 Volts</td>
</tr>
</tbody>
</table>

For corresponding socket connectors, see pages 57-63.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>Flash gold</td>
<td>Flash gold</td>
</tr>
</tbody>
</table>

See page 178 for plating specs.

**NNN number of poles.** Replace **NNN** with the requested number of poles, e.g., 880-70-**NNN**-10-001101 for a single row version with 8 pins becomes 880-70-**008**-10-001101.

---

**880-70-** **NNN** **-10-001101**

Straight square pin header, solder tail, single row

**AVAILABILITY FROM**

- 2 to 40 contacts
- (standard number of contacts: 40)

---

**882-70-** **NNN** **-10-001101**

Straight square pin header, solder tail, double row

**AVAILABILITY FROM**

- 4 to 80 contacts
- (standard number of contacts: 80)

---

**880-70-** **NNN** **-20-001101**

Right angle square pin header, solder tail, single row

**AVAILABILITY FROM**

- 2 to 40 contacts
- (standard number of contacts: 40)

---

**882-70-** **NNN** **-20-001101**

Right angle square pin header, solder tail, double row

**AVAILABILITY FROM**

- 4 to 80 contacts
- (standard number of contacts: 80)

---

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.47 mm / SINGLE ROW / DOUBLE ROW / SOLDER TAIL

Ultralow and very low profile socket connectors, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.52 mm
- **FORCES**: 3 N typ. insertion, 1.5 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding pin connectors, see pages 101-108.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NN number of poles. Replace NN with the requested number of poles, e.g. 415-83-2NN-41-001101 for a double row version with 16 pins becomes 415-83-216-41-001101.

315-PP-1NN-41-003101
Straight socket connector ultralow profile, height 2.4 mm, solder tail, single row

- **AVAILABILITY FROM**: 2 to 64 contacts
  - (standard number of contacts: 64)
- Please note: ultralow version not available as double row

315-PP-1NN-41-001101
Straight socket connector very low profile, height 3.14 mm, solder tail, single row

- **AVAILABILITY FROM**: 2 to 64 contacts
  - (standard number of contacts: 64)

415-PP-2NN-41-001101
Straight socket connector very low profile, height 3.14 mm, solder tail, double row

- **AVAILABILITY FROM**: 4 to 72 contacts
  - (standard number of contacts: 72)
- Please note: ultralow version not available as double row

315-PP-1YY-01-881101
Straight socket connector very low profile, height 3.14 mm, partially equipped 5.08 mm, solder tail, single row

- **AVAILABILITY FROM**: 2 to 32 contacts
  - YY number of poles:
  - Please consult for ordering code

Due to technical progress, all information provided is subject to change without prior notice.
TECHNICAL SPECIFICATIONS

**INSULATOR**
Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
UL 94V-O

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (4 FINGER)**
Beryllium copper (C17200)

**MATING PIN Ø**
0.40 to 0.56 mm

**FORCES**
2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1,000 V RMS

For corresponding pin connectors, see page 45.

**ORDERING INFORMATION RHOS COMPLIANT PARTS**

**PP PLATING CODE**
87, 83

**SLEEVE**
Tin

**CLIP**
Flash gold, 0.75 μm gold

310-PP-1NN-41-001101
Straight socket connector height 4.2 mm, solder tail, single row

AVAILABILITY FROM
2 to 64 contacts
(standard number of contacts: 64)

410-PP-2NN-41-001101
Straight socket connector height 4.2 mm, solder tail, double row

AVAILABILITY FROM
4 to 72 contacts
(standard number of contacts: 72)

310-PP-1YY-01-609101
Straight socket connector height 4.2 mm, solder tail, single row, partially equipped 5.08 mm

AVAILABILITY FROM
2 to 32 contacts
YY number of poles:
please consult for ordering code

310-PP-1NN-01-666101
Straight socket connector height 4.2 mm, with clinched (right/left) solder tails, single row

AVAILABILITY FROM
3 to 64 contacts
(standard number of contacts: 64)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, long solder tail.

**TECHNICAL SPECIFICATIONS** (for general specs, see page 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1’000 Vrms

For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NN number of poles. Replace NN with the requested number of poles, e.g. 411-83-2NN-41-001101 for a double row version with 16 pins becomes 411-83-216-41-001101.

311-PP-1NN-41-001101

- Straight socket connector height 4.1 mm, long solder tail, single row
- **AVAILABILITY FROM**: 2 to 64 contacts (standard number of contacts: 64)

411-PP-2NN-41-001101

- Straight socket connector height 4.1 mm, long solder tail, double row
- **AVAILABILITY FROM**: 4 to 72 contacts (standard number of contacts: 72)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, solder tail with standoff.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
<td>Black glass filled polyester PCT-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-O</td>
</tr>
<tr>
<td><strong>SLEEVE</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONTACT CLIP (4 FINGER)</strong></td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td><strong>MATING PIN Ø</strong></td>
<td>0.40 to 0.56 mm</td>
</tr>
<tr>
<td><strong>FORCES</strong></td>
<td>2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>CONTACT RESISTANCE</strong></td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 1'000 V RMS</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see page 45.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

- **PP PLATING CODE**
- **SLEEVE**
- **CLIP**
- 87: Tin, Flash gold
- 83: Tin, 0.75 μm gold

**310-PP-1NN-01-640101**

Straight socket connector height 4.2 mm, solder tail, single row, with standoff

**AVAILABILITY FROM**

2 to 32 contacts (standard number of contacts: 32)

**410-PP-2NN-01-640101**

Straight socket connector height 4.2 mm, solder tail, double row, with standoff

**AVAILABILITY FROM**

4 to 64 contacts (standard number of contacts: 64)

**410-PP-3NN-01-640101**

Straight socket connector height 4.2 mm: solder tail, triple row, with standoff

**AVAILABILITY FROM**

9 to 96 contacts (standard number of contacts: 96)

**310-PP-1NN-01-754101**

Straight socket connector height 4.2 mm, with clinched (right/left) solder tails, single row, with standoff

**AVAILABILITY FROM**

3 to 32 contacts (standard number of contacts: 32)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.36 to 0.46 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 V/μm

For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**805-PP-YYY-10-229101**

Straight socket connector height 4.2 mm, solder tail, double row, partially equipped 5.08 mm

**AVAILABILITY FROM**: 4 to 32 contacts

**YYY number of poles**: please consult for ordering code

---

Due to technical progress, all information provided is subject to change without prior notice.
316-PP-1NN-41-XXX101
Interconnect socket strip, solder tail, single row
AVAILABILITY FROM 2 to 64 contacts
(standard number of contacts: 64)

416-PP-2NN-41-XXX101
Interconnect socket strip, solder tail, double row
AVAILABILITY FROM 4 to 72 contacts
(standard number of contacts: 72)

Available contact lengths:

<table>
<thead>
<tr>
<th>CONTACT LENGTH</th>
<th>CONTACT DIAMETER</th>
<th>XXX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 (mm)</td>
<td>L2 (mm)</td>
<td>D1 (mm)</td>
</tr>
<tr>
<td>6</td>
<td>4.2</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>4.2</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>4.2</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>4.85</td>
<td>1</td>
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<tr>
<td>10</td>
<td>4.2</td>
<td>1</td>
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<tr>
<td>11</td>
<td>4.2</td>
<td>0.85</td>
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<tr>
<td>12</td>
<td>4.2</td>
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<tr>
<td>22</td>
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<tr>
<td>33</td>
<td>4.2</td>
<td>1.18</td>
</tr>
</tbody>
</table>

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal
  (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding pin connectors, see pages 101-108.

ORDERING INFORMATION ROHS COMPLIANT PARTS

- **PP PLATING CODE**
  - 87: Tin
  - 83: Tin

- **SLEEVE**
  - 87: Tin
  - 83: Tin

- **CLIP**
  - 87: Flash gold
  - 83: 0.75 μm gold

- **ORDERING INFORMATION**
  - **ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
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</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**801-PP-NNN-10-132101**

Straight socket connector height 7 mm, solder tail, single row

- **AVAILABILITY FROM**
  - 2 to 50 contacts
  - (standard number of contacts: 50)

**803-PP-NNN-10-132101**

Straight socket connector height 7 mm, solder tail, double row

- **AVAILABILITY FROM**
  - 4 to 100 contacts
  - (standard number of contacts: 100)

**805-PP-NNN-10-132101**

Straight socket connector height 7 mm, solder tail, triple row

- **AVAILABILITY FROM**
  - 9 to 96 contacts
  - (standard number of contacts: 96)

**801-PP-NNN-10-173101**

Straight socket connector height 7 mm, with clinched (right/left) solder tails, single row

- **AVAILABILITY FROM**
  - 3 to 50 contacts
  - (standard number of contacts: 50)

Due to technical progress, all information provided is subject to change without prior notice.
Right angle socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

**INSULATOR**
- Black glass filled polyester (PCT-GF30-FR)

**FLAMMABILITY**
- UL 94V-O

**SLEEVE**
- Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (4 FINGER)**
- Beryllium copper (C17200)

**MATING PIN Ø**
- 0.40 to 0.56 mm

**FORCES**
- 2 N typ. insertion
- 1 N typ. withdrawal
  (polished steel gauge Ø 0.43 mm)

**MECHANICAL LIFE**
- Min. 500 cycles

**RATED CURRENT**
- 3 A

**CONTACT RESISTANCE**
- Max. 10 mΩ

**DIELECTRIC STRENGTH**
- Min. 1'000 Vrms

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**399-PP-1NN-10-003101**
Right angle socket connector, single row

**AVAILABILITY FROM**
- 2 to 64 contacts
  (standard number of contacts: 64)

**499-PP-2NN-10-003101**
Right angle socket connector, double row

**AVAILABILITY FROM**
- 4 to 72 contacts
  (standard number of contacts: 72)

Other plating on request (see page 178 for plating specs).

NN number of poles. Replace NN with the requested number of poles, e.g., 499-83-2NN-10-003101 for a double row version with 16 pins becomes 499-83-2×16-10-003101.

www.precedip.com  TEL +41 32 421 04 00  SALES@PRECIDIP.COM

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, SMD perpendicular mount.

**TECHNICAL SPECIFICATIONS** (For general specs, see page 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms
- **COPLANARITY**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

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<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

314-PP-1NN-01899101

SMD socket connector, low profile, single row, perpendicular mount with self-levelling floating contacts

**AVAILABILITY FROM**

2 to 12 contacts

(standard number of contacts: 12)

For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

414-PP-2NN-41134101

SMD socket connector, low profile, double row, perpendicular mount with self-levelling floating contacts

**AVAILABILITY FROM**

4 to 64 contacts

(standard number of contacts: 64)

For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

**T & R Packaging**

310-PP-1NN-41105101

SMD socket connector, single row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**

3 to 64 contacts

(standard number of contacts: 64)

For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

410-PP-2NN-41105101

SMD socket connector, double row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**

4 to 72 contacts

(standard number of contacts: 72)

For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

**T & R Packaging**

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, SMD parallel mount.

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**
  - 2 N typ. insertion
  - 1 N typ. withdrawal
  - (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms
- **COPLANARITY**
  - SMD TERMINATIONS: Max. 0.1 mm (measured on 25 mm long connectors)
  - For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

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<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

310-PP-1NN-41-205101

SMD socket connector, single row, parallel mount

**AVAILABILITY FROM**

- 2 to 64 contacts
  - (standard number of contacts: 64)

For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically.

Other plating on request (see page 178 for plating specs).

**NN number of poles**. Replace **NN** with the requested number of poles, e.g. 310-87-1NN-41-205101 for a single row version with 8 pins becomes 310-87-108-41-205101.

Due to technical progress, all information provided is subject to change without prior notice.
Socket Connectors 2.54 mm
Mating Pin Ø 0.47 mm / Single Row / Double Row / Press-Fit

Socket connectors, press-fit with compliant pin for solderless mount in PCB plated through holes.

Technical Specifications (for general specs, see page 43)

- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-0
- **Sleeve**: Bronze CuSn4Pb4Zn4 (C54400)
- **Contact Clip (4 Finger)**: Beryllium copper (C17200)
- **Mating Pin Ø**: 0.40 to 0.56 mm
- **Insertion Forces**: 2 N typ.
- **Withdrawal Forces**: 1 N typ.
- **Contact Resistance**: Max. 10 mΩ
- **Rated Current**: 3 A
- **Mechanical Life**: Min. 500 cycles
- **Flame Resistance**: Min. 1000 Vrms
- **PCB Hole Ø**: 1 mm +0.09/-0.06 mm finished (1.15 ±0.025 mm drill)

For corresponding pin connectors, see pages 101-108.

Ordering Information ROHS Compliant Parts

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>Sleeve</th>
<th>Clip</th>
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<tbody>
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</tr>
</tbody>
</table>

**346-PP-1NN-41-036101**

- Press-fit socket connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm
- **Availability From**: 2 to 64 contacts (standard number of contacts: 64)

**446-PP-2NN-41-036101**

- Press-fit socket connector, double row, compliant pin for PCB thickness 1.5 to 2.5 mm
- **Availability From**: 4 to 72 contacts (standard number of contacts: 72)

**346-PP-1NN-41-035101**

- Press-fit socket connector, single row, compliant pin for PCB thickness 2.1 to 3.2 mm
- **Availability From**: 2 to 64 contacts (standard number of contacts: 64)

**446-PP-2NN-41-035101**

- Press-fit socket connector, double row, compliant pin for PCB thickness 2.1 to 3.2 mm
- **Availability From**: 4 to 72 contacts (standard number of contacts: 72)

For corresponding pin connectors, see pages 101-108.

NN number of poles. Replace NN with the requested number of poles, e.g. 346-83-1NN-41-036101 for a single row version with 8 pins becomes 346-83-08-41-036101.

Due to technical progress, all information provided is subject to change without prior notice.
 SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.47 mm / SINGLE ROW / DOUBLE ROW / PRESS-FIT

Socket connectors, press-fit with compliant pin for solderless mount in PCB plated through holes.

TECHNICAL SPECIFICATIONS
FOR GENERAL SPECS, SEE PAGE 43

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Bronze CuSn4Pb4Zn4 (CS4400)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 VAMS
- **PCB HOLE Ø**: 1 mm ±0.09/-0.06 mm finished (1.15 ±0.025 mm drill)

For corresponding pin connectors, see pages 101-108.

ORDERING INFORMATION ROHS COMPLIANT PARTS

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<td>Tin</td>
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</tr>
</tbody>
</table>

801-PP-NNN-65-410101
Press-fit socket connector height 7 mm, single row, compliant pin for PCB thickness 1.5 to 2.5 mm
**AVAILABILITY FROM**: 2 to 50 contacts (standard number of contacts: 50)

803-PP-NNN-65-410101
Press-fit receptacle socket height 7 mm, double row, compliant pin for PCB thickness 1.5 to 2.5 mm
**AVAILABILITY FROM**: 4 to 100 contacts (standard number of contacts: 100)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors with wire-wrap terminations.

**Technological Specifications**

**Insulator**
Black glass filled polyester PCT-GF30-FR

**Flammability**
UL 94V-O

**Sleeve**
Brass CuZn36Pb3 (C36000)

**Contact Clip (4 Finger)**
Beryllium copper (C17200)

**Mating Pin Ø**
0.40 to 0.56 mm

**Forces**
2 N typ. insertion, 1 N typ. withdrawal
(polished steel gauge Ø 0.43 mm)

**Mechanical Life**
Min. 500 cycles

**Rated Current**
3 A

**Contact Resistance**
Max. 10 mΩ

**Dielectric Strength**
Min. 1'000 V RMS

For corresponding pin connectors, see pages 101-108.

**Ordering Information ROHS Compliant Parts**

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>Sleeve</th>
<th>Clip</th>
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<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

- **322-PP-1NN-41-001101**
  - Wire-wrap socket connector height 4.9 mm, 2-level, single row
  - Availability from 2 to 64 contacts
    - (standard number of contacts: 64)

- **422-PP-2NN-41-001101**
  - Wire-wrap socket connector height 4.9 mm, 2-level, double row
  - Availability from 4 to 72 contacts
    - (standard number of contacts: 72)

- **323-PP-1NN-41-001101**
  - Wire-wrap socket connector height 4.9 mm, 3-level, single row
  - Availability from 2 to 64 contacts
    - (standard number of contacts: 64)

- **423-PP-2NN-41-001101**
  - Wire-wrap socket connector height 4.9 mm, 3-level, double row
  - Availability from 4 to 72 contacts
    - (standard number of contacts: 72)

Other plating on request (see page 178 for plating specs).

NN number of poles. Replace NN with the requested number of poles, e.g. 422-83-2NN-41-001101 for a double row version with 16 pins becomes 422-83-16-41-001101.

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors with wire-wrap terminations and connecting pin for board stacking.

**TECHNICAL SPECIFICATIONS**

- **INSULATOR**
  - Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**
  - UL 94V-0
- **SLEEVE**
  - Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**
  - Beryllium copper (C17200)
- **MATING PIN Ø**
  - 0.40 to 0.56 mm
- **FORCES**
  - 2 N typ. insertion
  - 1 N typ. withdrawal
  - (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**
  - Min. 500 cycles
- **CONTACT RESISTANCE**
  - Max. 10 mΩ
- **RATED CURRENT**
  - 3 A
- **DIELECTRIC STRENGTH**
  - Min. 1'000 Vrms

For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION**

**ROHS COMPLIANT PARTS**

- **PP PLATING CODE**
  - 83
- **SLEEVE**
  - Tin
- **CLIP**
  - 0.75 μm gold

**326-83-1NN-41-XXX101**

- Wire-wrap socket connector with connecting pin, height 4.9 mm, single row
- **AVAILABILITY FROM**
  - 2 to 64 contacts
  - (standard number of contacts: 64)

**426-83-2NN-41-XXX101**

- Wire-wrap socket connector with connecting pin, height 4.9 mm, double row
- **AVAILABILITY FROM**
  - 4 to 72 contacts
  - (standard number of contacts: 72)

**AVAILABLE CONTACT LENGTHS**

<table>
<thead>
<tr>
<th>CONTACT LENGTH L (mm)</th>
<th>WW-LEVEL</th>
<th>XXX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.9</td>
<td>1</td>
<td>001</td>
</tr>
<tr>
<td>8.9</td>
<td>2</td>
<td>002</td>
</tr>
<tr>
<td>11.9</td>
<td>3</td>
<td>003</td>
</tr>
</tbody>
</table>

Due to technical progress, all information provided is subject to change without prior notice.
“Zero profile” socket connectors. Single socket contacts for solder mount into PCB, supplied on disposable carriers.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (4 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.40 to 0.56 mm
- **FORCES**: 2 N typ. insertion, 1 N typ. withdrawal (polished steel gauge Ø 0.43 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding pin connectors, see pages 101-108.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

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<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 µm gold</td>
</tr>
</tbody>
</table>

**712-PP-1NN-41-001101**

Single row carrier with standard socket contact with solder tail

**AVAILABILITY FROM**

2 to 64 contacts

(standard number of contacts: 64)

Double row, disposable carrier strips on request

**714-PP-1NN-41-001101**

Single row carrier with low profile contact

for solder mount into PCB hole Ø 1.4-1.8 mm, PCB thickness 1 to 2.6 mm

**AVAILABILITY FROM**

2 to 64 contacts

(standard number of contacts: 64)

Double row, disposable carrier strips on request

**714-PP-1NN-41-014101**

Single row carrier with low profile contact

for solder mount into PCB hole Ø 1.4-1.8 mm, PCB thickness 1 to 5 mm

**AVAILABILITY FROM**

2 to 64 contacts

(standard number of contacts: 64)

Double row, disposable carrier strips on request

---

Due to technical progress, all information provided is subject to change without prior notice.
**TECHNICAL SPECIFICATIONS**  
**FOR GENERAL SPECS, SEE PAGE 43**

**INSULATOR**  
Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**  
UL 94V-O

**SLEEVE**  
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (3 FINGER)**  
Beryllium copper (C17200)

**MATING PIN Ø**  
0.40 to 0.52 mm

**FORCES**  
1 N typ. insertion  
0.4 N typ. withdrawal  
(polished steel gauge Ø 0.43 mm)

**MECHANICAL LIFE**  
Min. 500 cycles

**CONTACT RESISTANCE**  
Max. 10 mΩ

**RATED CURRENT**  
3 A

**DIELECTRIC STRENGTH**  
Min. 1'000 V RMS

**For corresponding pin connectors, see pages 101-108.**

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

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<td>0.75 μm gold</td>
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</table>

714-PP-1NN-31-012101  
Single row carrier with ultra thin, low profile contact  
or solder mount into PCB hole Ø 1-1.3 mm, PCB thickness 1 to 2.4 mm  
**AVAILABILITY FROM**  
2 to 64 contacts  
(standard number of contacts: 64)

Double row, disposable carrier strips on request

714-PP-1NN-31-018101  
Single row carrier with ultra thin, low profile contact  
for solder mount into PCB hole Ø 1-1.3 mm, PCB thickness 1 to 3.4 mm  
**AVAILABILITY FROM**  
1 to 64 contacts  
(standard number of contacts: 64)

Double row, disposable carrier strips on request

714-PP-1NN-31-008101  
Single row carrier with contacts for solderless press-fit mount into plated  
trough PCB hole Ø 1.05 ±0.05 mm finished, PCB thickness 1.5 to 2.5 mm  
**AVAILABILITY FROM**  
2 to 64 contacts  
(standard number of contacts: 64)

Double row, disposable carrier strips on request

Due to technical progress, all information provided is subject to change without prior notice.
**TECHNICAL SPECIFICATIONS** (for general specs, see page 43)

- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-O
- **Sleeve**: Brass CuZn36Pb3 (C36000)
- **Contact Clip (6 Finger)**: Beryllium copper (C17200)
- **Mating Pins**: Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **Forces**: 1.2 N typ. insertion, 0.6 N typ. withdrawal
  (polished steel gauge Ø 0.76 mm)
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 3 A
- **Contact Resistance**: Max. 10 mΩ
- **Dielectric Strength**: Min. 1000 V RMS

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

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</table>

**801-PP-NNN-10-268101**

Straight socket connector, very low profile, height 2.95 mm, solder tail, single row

**Availability from**: 2 to 64 contacts

(standard number of contacts: 64)

**803-PP-NNN-10-268101**

Straight socket connector, very low profile, height 2.95 mm, solder tail, double row

**Availability from**: 4 to 72 contacts

(standard number of contacts: 72)

Due to technical progress, all information provided is subject to change without prior notice.
TECHNICAL SPECIFICATIONS

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding pin connectors, see pages 109-119.

ORDERING INFORMATION ROHS COMPLIANT PARTS

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</table>

**801-PP-NNN-10-012101**
Straight socket connector, low profile, height 4.2 mm, solder tail, single row

**AVAILABILITY FROM**
2 to 32 contacts
(standard number of contacts: 32)

**803-PP-NNN-10-012101**
Straight socket connector, low profile, height 4.2 mm, solder tail, double row

**AVAILABILITY FROM**
4 to 64 contacts
(standard number of contacts: 64)

**805-PP-NNN-10-012101**
Straight socket connector, low profile, height 4.2 mm, solder tail, triple row

**AVAILABILITY FROM**
9 to 96 contacts
(standard number of contacts: 96)

**801-PP-YYY-10-458101**
Straight socket connector, low profile, height 4.2 mm, solder tail, single row, partially equipped 5.08 mm

**AVAILABILITY FROM**
2 to 16 contacts
**YYY number of poles**: please consult for ordering code

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

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</tr>
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</table>

Other plating on request (see page 178 for plating specs). NNN number of poles. Replace NNN with the requested number of poles, e.g. 803-87-NNN-10-001101 for a double row version with 16 pins becomes 803-87-016-10-001101.

---

**801-PP-NNN-10-001101**

Straight socket connector, height 7 mm, solder tail, single row

**AVAILABILITY FROM**

- 2 to 50 contacts (standard number of contacts: 50)

**803-PP-NNN-10-001101**

Straight socket connector, height 7 mm, solder tail, double row

**AVAILABILITY FROM**

- 4 to 100 contacts (standard number of contacts: 100)

**805-PP-NNN-10-001101**

Straight socket connector, height 6.9 mm, solder tail, triple row

**AVAILABILITY FROM**

- 9 to 96 contacts (standard number of contacts: 96)

---

Due to technical progress, all information provided is subject to change without prior notice.
**Socket Connectors, Solder Tail.**

**Technical Specifications**

**(For General Specs, See Page 43)**

- **Insulator:** Black glass filled polyester PCT-GF30-FR
- **Flammability:** UL 94V-O
- **Sleeve:** Brass CuZn36Pb3 (C36000)
- **Contact Clip (6 Finger):** Beryllium copper (C17200)
- **Mating Pins:** Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **Forces:**
  - 1.2 N typ. insertion
  - 0.6 N typ. withdrawal
- **Mechanical Life:** Min. 500 cycles
- **Rated Current:** 3 A
- **Contact Resistance:** Max. 10 mΩ
- **Dielectric Strength:** Min. 1’000 Vrms

For corresponding pin connectors, see pages 109-119.

**Ordering Information ROHS Compliant Parts**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**Other plating on request (see page 178 for plating specs).**

**NYY Number of Poles:** Replace **NNN** with the requested number of poles, e.g., 801-87-NNN-10-143101 for a single row version with 16 pins becomes 801-87-016-10-143101.

---

**801-PP-YYY-10-101101**

Straight socket connector, height 7 mm, solder tail, single row, partially equipped 5.08 mm

- **Availability From:** 2 to 25 contacts
- **YYY number of poles:** please consult for ordering code

**801-PP-NNN-10-143101**

Straight socket connector, height 7 mm with clinched (right/left) solder tail, single row

- **Availability From:** 3 to 50 contacts
- **(Standard Number of Contacts: 50)**
Socket Connectors, solder tail.

**Technical Specifications** (for general specs, see page 43)

**Insulator**
Black glass filled polyester PCT-GF30-FR

**Flammability**
UL 94V-O

**Sleeve**
Brass CuZn36Pb3 (C36000)

**Contact Clip (6 Finger)**
Beryllium copper (C17200)

**Mating Pins**
Ø 0.70 to 0.90 mm, Ø 0.635 mm

**Forces**
1.2 N typ. insertion, 0.6 N typ. withdrawal

**Mechanical Life**
Min. 500 cycles

**Rated Current**
3 A

**Contact Resistance**
Max. 10 mΩ

**Dielectric Strength**
Min. 1'000 Vrms

For corresponding pin connectors, see pages 109-119.

**Ordering Information**

**ROHS Compliant Parts**

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**801-PP-NNN-10-003101**
Straight socket connector, height 8 mm, solder tail, single row

**Availability from**
2 to 36 contacts

*(standard number of contacts: 36)*

**803-PP-NNN-10-003101**
Straight socket connector, height 7.9 mm, solder tail, double row

**Availability from**
4 to 100 contacts

*(standard number of contacts: 100)*

**805-PP-NNN-10-003101**
Straight socket connector, height 7.9 mm, solder tail, triple row

**Availability from**
9 to 96 contacts

*(standard number of contacts: 96)*

Due to technical progress, all information provided is subject to change without prior notice.
**Socket Connectors, solder tail.**

### TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 42)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
<td>Black glass filled polyester PCT-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-0</td>
</tr>
<tr>
<td><strong>SLEEVE</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONTACT CLIP (6 FINGER)</strong></td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td><strong>MATING PINS</strong></td>
<td>Ø 0.70 to 0.90 mm, 0.635 mm</td>
</tr>
<tr>
<td><strong>FORCES</strong></td>
<td>1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>CONTACT RESISTANCE</strong></td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 1'000 Vrms</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see pages 109-119.

### ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold 0.75 μm gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td></td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 803-87-NNN-10-005101 for a double row version with 16 pins becomes 803-87-016-10-005101.

---

**801-PP-NNN-10-005101**

Straight socket connector, height 8.5 mm, solder tail, single row

**AVAILABILITY FROM**

2 to 36 contacts

(standard number of contacts: 36)

---

**803-PP-NNN-10-005101**

Straight socket connector, height 8.5 mm, solder tail, double row

**AVAILABILITY FROM**

4 to 100 contacts

(standard number of contacts: 100)

---

**805-PP-NNN-10-005101**

Straight socket connector, height 8.4 mm, solder tail, triple row

**AVAILABILITY FROM**

9 to 96 contacts

(standard number of contacts: 96)

---

**803-PP-NNN-10-269101**

Straight socket connector, height 11 mm, solder tail, double row

**AVAILABILITY FROM**

4 to 100 contacts

(standard number of contacts: 100)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (For general specs, see page 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NNN number of poles.** Replace NNN with the requested number of poles, e.g. 803-87-NNN-10-216101 for a double row version with 16 pins becomes 803-87-016-10-216101.

---

**803-PP-NNN-10-249101**
Straight socket connector, height 19.7 mm, solder tail, double row

- **AVAILABILITY FROM**: 4 to 40 contacts
  (standard number of contacts: 40)

**801-PP-NNN-10-216101**
Straight socket connector, height 37.5 mm, solder tail, single row

- **AVAILABILITY FROM**: 2 to 32 contacts
  (standard number of contacts: 32)

**803-PP-NNN-10-216101**
Straight socket connector, height 37.5 mm, solder tail, double row

- **AVAILABILITY FROM**: 4 to 72 contacts
  (standard number of contacts: 72)

---

Due to technical progress, all information provided is subject to change without prior notice.
Right angle short socket connector, solder tail.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

<table>
<thead>
<tr>
<th><strong>INSULATOR</strong></th>
<th>Black glass filled polyester PCT-GF30-FR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-O</td>
</tr>
<tr>
<td><strong>SLEEVE</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONTACT CLIP (6 FINGER)</strong></td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td><strong>MATING PINS</strong></td>
<td>Ø 0.70 to 0.90 mm, 0.635 mm</td>
</tr>
<tr>
<td><strong>FORCES</strong></td>
<td>1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>CONTACT RESISTANCE</strong></td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 1'000 Vrms</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

801-PP-NNN-20-002101

Right angle short socket connector, solder tail, single row

**AVAILABILITY FROM**

2 to 64 contacts

(standard number of contacts: 64)

Option: right angle short receptacle, solder tail, double row available on request

801-PP-YYYY-20-442101

Right angle short socket connector, solder tail, single row, partially equipped 5.08 mm

**AVAILABILITY FROM**

2 to 32 contacts

(standard number of contacts: 32)

**YYYY number of poles**: please consult for ordering code

803-PP-NNN-20-001101

Right angle socket connector, solder tail, double row

**AVAILABILITY FROM**

4 to 100 contacts

(standard number of contacts: 100)

---

**Due to technical progress, all information provided is subject to change without prior notice.**
Right angle socket connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.70 to 0.90 mm, 0.635 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal
  
  (polished steel gauge Ø 0.76 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **Rated Current**: 3 A
- **Contact Resistance**: Max. 10 mΩ
- **Dielectric Strength**: Min. 1'000 V/ins

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**801-PP-YYY-20-101101**

Right angle socket connector, solder tail, single row, partially equipped 5.08 mm

**AVAILABILITY FROM** 2 to 25 contacts

**YYY number of poles:**

please consult for ordering code

---

Due to technical progress, all information provided is subject to change without prior notice.
Socket Connectors 2.54 mm
Mating Pin Ø 0.76 mm / Single Row / Double Row / Surface Mount

Technical Specifications (for general specs, see page 43)

**Insulator**: Black glass filled polyester PCT-GF30-FR

**Flammability**: UL 94V-O

**Sleeve**: Brass CuZn36Pb3 (C36000)

**Contact Clip (6 Finger)**: Beryllium copper (C17200)

**Mating Pins**

- Ø 0.70 to 0.90 mm, 0.635 mm

**Forces**

- 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)

**Mechanical Life**: Min. 500 cycles

**Rated Current**: 3 A

**Contact Resistance**: Max. 10 mΩ

**Dielectric Strength**: Min. 1'000 Vrms

**Coplanarity SMD Terminations**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 109-119.

Ordering Information ROHS Compliant Parts

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>Sleeve</th>
<th>Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

801-PP-NNN-30-002101
SMD socket connector, single row, perpendicular mount with self-levelling floating contacts

- **Availability from**: 2 to 12 contacts
  - (standard number of contacts: 12)
  - For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

803-PP-NNN-30-002101
SMD socket connector, double row, perpendicular mount with self-levelling floating contacts

- **Availability from**: 4 to 64 contacts
  - (standard number of contacts: 64)
  - For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

801-PP-NNN-30-002101
SMD socket connector, single row, perpendicular mount with gull-wing terminations

- **Availability from**: 3 to 64 contacts
  - (standard number of contacts: 64)
  - For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

803-PP-NNN-30-002101
SMD socket connector, double row, perpendicular mount with gull-wing terminations

- **Availability from**: 4 to 72 contacts
  - (standard number of contacts: 40 and 72)
  - For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

WWW.PRECIDIP.COM  TEL +41 32 421 04 00  SALES@PRECIDIP.COM

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, SMD perpendicular mount.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

**INSULATOR**
Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
UL 94V-O

**SLEEVE**
Brass CuZn36Pb3 (C36000)

**CONTACT CLIP (6 FINGER)**
Beryllium copper (C17200)

**MATING PINS**
Ø 0.70 to 0.90 mm, Ø 0.635 mm

**FORCES**
1.2 N typ. insertion, 0.6 N typ. withdrawal
(polished steel gauge Ø 0.76 mm)

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

**CONTACT RESISTANCE**
Max. 10 mΩ

**DIELECTRIC STRENGTH**
Min. 1'000 Vrms

**COPLANARITY**
Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding pin connectors, see pages 109-119.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

801-PP-NNN-30-001101
SMD socket connector, single row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
3 to 50 contacts
(standard number of contacts: 50)

For connectors having more than 8 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

803-PP-NNN-30-001101
SMD socket connector, double row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
4 to 100 contacts
(standard number of contacts: 100)

For connectors having more than 8 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors, SMD parallel mount.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

<table>
<thead>
<tr>
<th>INSULATOR</th>
<th>Black glass filled polyester PCT-GF30-FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>UL 94V-O</td>
</tr>
<tr>
<td>SLEEVE</td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td>CONTACT CLIP (6 FINGER)</td>
<td>Beryllium copper (C17200)</td>
</tr>
<tr>
<td>MATING PINS</td>
<td>Ø 0.70 to 0.90 mm, Ø 0.635 mm</td>
</tr>
<tr>
<td>FORCES</td>
<td>1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)</td>
</tr>
<tr>
<td>MECHANICAL LIFE</td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td>RATED CURRENT</td>
<td>3 A</td>
</tr>
<tr>
<td>CONTACT RESISTANCE</td>
<td>Max. 10 mΩ</td>
</tr>
<tr>
<td>DIELECTRIC STRENGTH</td>
<td>Min. 1’000 Vms</td>
</tr>
<tr>
<td>COPLANARITY</td>
<td>Max. 0.1 mm (measured on 25 mm long connectors)</td>
</tr>
</tbody>
</table>

**For corresponding pin connectors, see pages 109-119.**

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>78, 87</td>
<td>Tin</td>
<td>Gold flash</td>
</tr>
<tr>
<td>38, 83</td>
<td>Tin</td>
<td>Gold 0.75 μm</td>
</tr>
</tbody>
</table>

Code 78, 38 for 8FM...02-146 series / 87, 83 for 801...40-00X101 series

**8FM-PP-0NNN-02-278**
SMD socket connector, parallel mount, low profile minimum PCB space requirement, single row

**AVAILABILITY FROM**
2 to 10 contacts
(standard number of contacts: 10)
For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

**8FM-PP-0NNN-02-146**
SMD socket connector, parallel mount, low profile minimum PCB space requirement, single row

**AVAILABILITY FROM**
2 to 10 contacts
(standard number of contacts: 10)
For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

**801-PP-NNN-40-002101**
SMD socket connector, parallel mount, short contact, single row

**AVAILABILITY FROM**
2 to 64 contacts
(standard number of contacts: 64)
For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

**801-PP-NNN-40-001101**
SMD socket connector, parallel mount, long contact, single row

**AVAILABILITY FROM**
2 to 50 contacts
(standard number of contacts: 50)
For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

Due to technical progress, all information provided is subject to change without prior notice.
SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / PRESS-FIT

Socket connectors, press-fit with compliant pin for solderless mount in PCB plated through holes.

TECHNICAL SPECIFICATIONS
(For General Specs, see Page 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Bronze CuSn4Pb4Zn4 (C54400)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PINS**: Ø 0.70 to 0.90 mm, Ø 0.635 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms
- **PCB HOLE Ø**: 1 mm ±0.09/-0.06 mm finished (1.15 ±0.025 mm drill)

For corresponding pin connectors, see pages 109-119.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
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<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
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</thead>
<tbody>
<tr>
<td>87</td>
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<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**801-PP-NNN-65-001101**
Press-fit socket connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm
AVAILABILITY FROM 2 to 50 contacts
(standard number of contacts: 50)

**803-PP-NNN-65-001101**
Press-fit socket connector, double row, compliant pin for PCB thickness 1.5 to 2.5 mm
AVAILABILITY FROM 4 to 100 contacts
(standard number of contacts: 100)

**801-PP-NNN-66-001101**
Press-fit socket connector, single row, compliant pin for PCB thickness 2.1 to 3.2 mm
AVAILABILITY FROM 2 to 50 contacts
(standard number of contacts: 50)

**803-PP-NNN-66-001101**
Press-fit socket connector, double row, compliant pin for PCB thickness 2.1 to 3.2 mm
AVAILABILITY FROM 4 to 100 contacts
(standard number of contacts: 100)

Due to technical progress, all information provided is subject to change without prior notice.
Socket connectors.

**Technical Specifications**

- **Mating Pin Ø 0.76 mm / Single Row / Double Row / Wire-Wrap**
- **Flammability**: UL 94V-0
- **Contact Clip (6 Fingers)**: Beryllium copper (C17200)
- **Mating Pins**: Ø 0.70 to 0.90 mm, 0.635 mm
- **Forces**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 0.76 mm)
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 3 A
- **Contact Resistance**: Max. 10 mΩ
- **Dielectric Strength**: Min. 1'000 Vrms

For corresponding pin connectors, see pages 109-119.

**Ordering Information**

- **RoHS Compliant Parts**
- **PP Plating Code**: Tin, Tin Flash gold, 0.75 μm gold
- **Contact** (Placing Code)**: 801-87-NNN-53-001101
- Wire-wrap socket connector, height 7 mm, 3-level, single row
  - **Availability From**: 2 to 50 contacts
  - (standard number of contacts: 50)

- **Contact** (Placing Code)**: 803-87-NNN-53-001101
- Wire-wrap socket connector, height 7 mm, 3-level, double row
  - **Availability From**: 4 to 100 contacts
  - (standard number of contacts: 100)

Other plating on request (see page 178 for plating specs).

**NNN Number of Poles**: Replace **NNN** with the requested number of poles, e.g. 803-87-NNN-53-001101 for a double row version with 16 pins becomes 803-87-016-53-001101.
Socket connectors, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **SLEEVE**: Brass CuZn36Pb3 (C36000)
- **CONTACT CLIP (6 FINGER)**: Beryllium copper (C17200)
- **MATING PIN Ø**: 0.95 to 1.08 mm
- **FORCES**: 1.2 N typ. insertion, 0.6 N typ. withdrawal (polished steel gauge Ø 1 mm)
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding pin connectors, see page 113.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>SLEEVE</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

801-PP-NNN-10-004101

Straight socket connector, height 7 mm, solder tail, single row

- **AVAILABILITY FROM**: 2 to 50 contacts
- (standard number of contacts: 50)

Other plating on request (see page 178 for plating specs). **NNN number of poles.** Replace **NNN** with the requested number of poles, e.g., 803-87-NNN-10-004101 for a double row version with 16 pins becomes 803-87-016-10-004101.

803-PP-NNN-10-004101

Straight socket connector, height 7 mm, solder tail, double row

- **AVAILABILITY FROM**: 4 to 100 contacts
- (standard number of contacts: 100)

Due to technical progress, all information provided is subject to change without prior notice.
Pin connectors, solder tail.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1’000 Vrms

For corresponding socket connectors, see pages 69-84.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 350/450...00-006101 series

Other plating on request (see page 178 for plating specs).

**NN number of poles.** Replace NN with the requested number of poles, e.g. 450-10-2NN-00-006101 for a double row version with 16 pins becomes 450-10-216-00-006101.

---

**350-PP-1NN-00-019101**

Straight pin connector ultralow profile, height 1.9 mm, solder tail, single row

**AVAILABILITY FROM** 2 to 64 contacts

(standard number of contacts: 64)

---

**350-PP-1NN-00-024101**

Straight pin connector ultralow profile, height 2.2 mm, solder tail, single row

**AVAILABILITY FROM** 2 to 64 contacts

(standard number of contacts: 64)

---

**350-PP-1NN-00-006101**

Straight pin connector low profile, height 3.5 mm, solder tail, single row

**AVAILABILITY FROM** 2 to 64 contacts

(standard number of contacts: 64)

---

**450-PP-2NN-00-006101**

Straight pin connector low profile, height 3.5 mm, solder tail, double row

**AVAILABILITY FROM** 4 to 72 contacts

(standard number of contacts: 72)
Due to technical progress, all information provided is subject to change without prior notice.

### Technical Specifications (For General Specs, See Page 43)
- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-O
- **Contact**: Brass CuZn36Pb3 (C36000)
- **Connecting Pin Ø**: 0.47 mm
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 3 A
- **Dielectric Strength**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 69-84.

#### Ordering Information RoHS Compliant Parts

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>Termination</th>
<th>Connecting Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NN Number of Poles**: Replace **NN** with the requested number of poles, e.g., 350-10-1NN-00-001101 for a single row version with 8 pins becomes 350-10-08-00-001101.

---

#### 350-PP-1NN-01-666101

Straight pin connector, height 3.5 mm, with clinched (right/left) solder tails, single row

**Availability From**: 3 to 64 contacts

(standard number of contacts: 64)

#### 350-PP-1YY-01-714101

Straight pin connector, height 3.5 mm, solder tail, single row, partially equipped 5.08 mm

**Availability From**: 2 to 32 contacts

**YY Number of Poles**: please consult for ordering code

#### 350-PP-1NN-00-001101

Straight pin connector, height 4 mm, solder tail, single row

**Availability From**: 2 to 64 contacts

(standard number of contacts: 64)

#### 450-PP-2NN-00-001101

Straight pin connector, height 4 mm, solder tail, double row

**Availability From**: 4 to 72 contacts

(standard number of contacts: 72)

---

Due to technical progress, all information provided is subject to change without prior notice.
TECHNICAL SPECIFICATIONS

- INSULATOR: Black glass filled polyester PCT-GF30-FR
- FLAMMABILITY: UL 94V-0
- CONTACT: Brass CuZn36Pb3 (C36000)
- CONNECTING PIN Ø: 0.47 mm
- MECHANICAL LIFE: Min. 500 cycles
- RATED CURRENT: 3 A
- DIELECTRIC STRENGTH: Min. 1'000 Vrms

For corresponding socket connectors, see pages 69-84.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

NN number of poles. Replace NN with the requested number of poles, e.g. 450-10-2NN-00-013101 for a double row version with 16 pins becomes 450-10-216-00-013101.
Pin interconnect connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 69-80.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NN number of poles**. Replace **NN** with the requested number of poles, e.g. 451-10-2NN-00-003101 for a double row version with 8 pins becomes 451-10-208-00-003101.

**AVAILABLE CONTACT LENGTHS**

<table>
<thead>
<tr>
<th>CONTACT LENGTH</th>
<th>L1 (mm)</th>
<th>L2 (mm)</th>
<th>XXX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2</td>
<td>4.7</td>
<td></td>
<td>003</td>
</tr>
<tr>
<td>8.4</td>
<td>3.55</td>
<td></td>
<td>004</td>
</tr>
<tr>
<td>15.3</td>
<td>3.55</td>
<td></td>
<td>005</td>
</tr>
<tr>
<td>21.2</td>
<td>3.55</td>
<td></td>
<td>016</td>
</tr>
<tr>
<td>27.4</td>
<td>3.55</td>
<td></td>
<td>017</td>
</tr>
</tbody>
</table>

Other lengths on request

---

**351-PP-1NN-00-XXX101**

- Straight interconnect pin connector, solder tail, single row
- **AVAILABILITY FROM**: 2 to 64 contacts
  - (standard number of contacts: 64)

**451-PP-2NN-00-XXX101**

- Straight interconnect pin connector, solder tail, double row
- **AVAILABILITY FROM**: 4 to 72 contacts
  - (standard number of contacts: 72)
Right angle pin connectors, solder tail.

**TECHNICAL SPECIFICATIONS** [FOR GENERAL SPECS, SEE PAGE 43]

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V–O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.47 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1’000 Vrms

For corresponding socket connectors, see pages 69-84.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

**PP PLATING CODE** | **TERMINATION** | **CONNECTING PIN**
--- | --- | ---
10 | 0.25 μm gold | 0.25 μm gold
80 | Tin | Tin
V3 | Tin | 0.75 μm gold

Other plating on request (see page 178 for plating specs).

**NN number of poles**. Replace NN with the requested number of poles, e.g. 499-10-2NN-10-009101 for a double row version with 8 pins becomes 499-10-08-10-009101.

**399-PP-1NN-10-009101**

Right angle pin connector, solder tail, single row

**AVAILABILITY FROM**

- 2 to 64 contacts
- (standard number of contacts: 64)

**499-PP-2NN-10-009101**

Right angle pin connector, solder tail, double row

**AVAILABILITY FROM**

- 4 to 72 contacts
- (standard number of contacts: 72)
PCB CONNECTORS

TECHNICAL SPECIFICATIONS

SMD pin connector, low profile, single row, perpendicular mount with self-levelling floating contacts

- AVAILABILITY FROM 2 to 64 contacts (standard number of contacts: 64)
- For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

ORDERING INFORMATION

ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 350/450...-00-106101 series

350-PP-1NN-01-899101
SMD pin connector, low profile, single row, perpendicular mount with gull-wing terminations

- AVAILABILITY FROM 3 to 64 contacts (standard number of contacts: 64)
- For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

450-PP-2NN-01-899101
SMD pin connector, low profile, double row, perpendicular mount with gull-wing terminations

- AVAILABILITY FROM 4 to 72 contacts (standard number of contacts: 72)
- For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

350-PP-1NN-00-106101
SMD pin connector, single row, perpendicular mount with gull-wing terminations

450-PP-2NN-00-106101
SMD pin connector, double row, perpendicular mount with gull-wing terminations

Due to technical progress, all information provided is subject to change without prior notice.
TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-0
- **Contact**: Brass CuZn36Pb3 (C36000)
- **Connecting Pin Ø**: 0.47 mm
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 3 A
- **Dielectric Strength**: Min. 1'000 Vrms
- **Coplanarity SMD Terminations**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 69-84.

ORDERING INFORMATION ROHS COMPATIBLE PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs). NN number of poles. Replace NN with the requested number of poles, e.g. 350-10-1NN-00-206101 for a single row version with 8 pins becomes 350-10-108-00-206101.

350-PP-1NN-00-206101
SMD pin connector, single row, parallel mount

**Availability From**: 2 to 64 contacts
(standard number of contacts: 64)
For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging
Pin connectors, press-fit with compliant pin for solderless mount in PCB plated through holes.

**TECHNICAL SPECIFICATIONS**  
*For general specs, see page 43*

- **Insulator:** Black glass filled polyester PCT-GF30-FR
- **Flammability:** UL 94V-O
- **Contact:** Bronze CuSn4Pb4Zn4 (C54400)
- **Connecting Pin Ø:** 0.47 mm
- **Mechanical Life:** Min. 500 cycles
- **Rated Current:** 3 A
- **Dielectric Strength:** Min. 1'000 Vrms
- **PCB Hole Ø:** 1 mm +0.09/-0.06 mm finished (1.15 ±0.025 mm drill)

For corresponding socket connectors, see pages 69-84.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

- **PP Plating Code:** V3
- **Termination:** Tin
- **Connecting Pin Ø:** 0.75 μm gold

### 356-V3-1NN-00-014101
Press-fit pin connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm  
**Availability From:** 2 to 64 contacts  
*(standard number of contacts: 64)*

### 456-V3-2NN-00-014101
Press-fit pin connector, double row, compliant pin for PCB thickness 1.5 to 2.5 mm  
**Availability From:** 4 to 72 contacts  
*(standard number of contacts: 72)*

Other plating on request (see page 178 for plating specs).  
**NN number of poles.** Replace NN with the requested number of poles, e.g. 356-V3-1NN-00-014101 for a single row version with 8 pins becomes 356-V3-108-00-014101.
## PIN CONNECTORS 2.54 mm

**Connecting pin Ø 0.76 mm / single row / double row**

**Solder tail**

---

**Technical Specifications** (for General Specs, see page 43)

- **Insulator**: Black glass filled polyester PCT-GF30-FR
- **Flammability**: UL 94V-O
- **Contact**: Brass CuZn36Pb3 (C36000)
- **Connecting Pin Ø**: 0.76 mm
- **Mechanical Life**: Min. 500 cycles
- **Rated Current**: 3 A
- **Dielectric Strength**: Min. 1000 Vrms

---

**Ordering Information RoHS Compliant Parts**

<table>
<thead>
<tr>
<th>PP Plating Code</th>
<th>Termination</th>
<th>Connecting Pin Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

---

**800-PP-NNN-10-002101**

- Straight pin connector, height 3.2 mm, short pin, solder tail, single row
- **Availability From**: 2 to 64 contacts
- (standard number of contacts: 64)

---

**802-PP-NNN-10-002101**

- Straight pin connector, height 3.2 mm, short pin, solder tail, double row
- **Availability From**: 4 to 72 contacts
- (standard number of contacts: 72)

---

**800-PP-NNN-10-001101**

- Straight pin connector, height 3.2 mm, long pin, solder tail, single row
- **Availability From**: 2 to 64 contacts
- (standard number of contacts: 64)
- Option: partially equipped 5.08 mm connector
- PN 800-PP-YYY-10-101101 available on request

---

**802-PP-NNN-10-001101**

- Straight pin connector, height 3.2 mm, long pin, solder tail, double row
- **Availability From**: 4 to 72 contacts
- (standard number of contacts: 72)

---

Due to technical progress, all information provided is subject to change without prior notice.
**TECHNICAL SPECIFICATIONS**

**INSULATOR**
- Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
- UL 94V-O

**CONTACT**
- Brass CuZn36Pb3 (C36000)

**CONNECTING PIN Ø**
- 0.76 mm

**MECHANICAL LIFE**
- Min. 500 cycles

**RATED CURRENT**
- 3 A

**DIELECTRIC STRENGTH**
- Min. 1'000 V RMS

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 802/804...-10-193101 series

**Other plating on request (see page 178 for plating specs).**

**NNN number of poles.** Replace **NNN** with the requested number of poles, e.g., **802-10-NNN-10-193101** for a double row version with 16 pins becomes **802-10-016-10-193101**.

**PIN CONNECTORS 2.54 mm**

**CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / TRIPLE ROW**

**SOLDER TAIL**

**350-PP-1NN-00-018101**
- Straight pin connector, height 4.75 mm, solder tail, single row
- **AVAILABILITY FROM**
  - 2 to 64 contacts
  - (standard number of contacts: 64)

**450-PP-2NN-00-018101**
- Straight pin connector, height 4.75 mm, solder tail, double row
- **AVAILABILITY FROM**
  - 4 to 72 contacts
  - (standard number of contacts: 72)

**802-V3-NNN-10-193101**
- Straight pin connector, height 21.2 mm, solder tail, double row
- **AVAILABILITY FROM**
  - 4 to 64 contacts
  - (standard number of contacts: 64)

**804-V3-NNN-10-193101**
- Straight pin connector, height 21.2 mm, solder tail, triple row
- **AVAILABILITY FROM**
  - 9 to 96 contacts
  - (standard number of contacts: 96)

---

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / TRIPLE ROW
SOLDER TAIL

Shrouded pin connectors, solder tail.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)
- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.76 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 85-99.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
<th>NUMBER OF POLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
<td>NNN</td>
</tr>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
<td>NNN</td>
</tr>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
<td>NNN</td>
</tr>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
<td>NNN</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NNN number of poles**: Replace **NNN** with the requested number of poles, e.g. 800-V3-NNN-12-002101 for a single row version with 8 pins becomes 800-V3-008-12-002101.

800-V3-NNN-12-002101
Straight shrouded pin connector, solder tail, single row

**AVAILABILITY FROM**: 2 to 32 contacts
(standard number of contacts: 32)

802-V3-NNN-12-002101
Straight shrouded pin connector, solder tail, double row

**AVAILABILITY FROM**: 4 to 64 contacts
(standard number of contacts: 64)

804-V3-NNN-12-002101
Straight shrouded pin connector, solder tail, triple row

**AVAILABILITY FROM**: 9 to 96 contacts
(standard number of contacts: 96)

800-V3-YYY-12-422101
Straight shrouded pin connector, solder tail, single row, partially equipped 5.08 mm

**AVAILABILITY FROM**: 2 to 16 contacts

**YYY number of poles**: please consult for ordering code

Due to technical progress, all information provided is subject to change without prior notice.
Right angle pin connectors, solder tail.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)
- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.76 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1’000 Vrms

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NNN number of poles**. Replace **NNN** with the requested number of poles, e.g., 800-10--NNN-20-001101 for a single row version with 8 pins becomes 800-10--008-20-001101.

---

**800-PP-NNN-20-001101**
Right angle pin connector, solder tail, single row

**AVAILABILITY FROM**
- 2 to 64 contacts
  (standard number of contacts: 64)

---

**802-PP-NNN-20-001101**
Right angle pin connector, solder tail, double row

**AVAILABILITY FROM**
- 4 to 72 contacts
  (standard number of contacts: 72)

---

**800-PP-YYY-20-101101**
Right angle pin connector, solder tail, single row, partially equipped 5.08 mm

**AVAILABILITY FROM**
- 2 to 32 contacts
  **YYY number of poles**:
  please consult for ordering code

---

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.76 / 1 mm / SINGLE ROW / DOUBLE ROW
TRIPLE ROW / SOLDER TAIL

Right angle pin connectors, solder tail.

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

<table>
<thead>
<tr>
<th><strong>INSULATOR</strong></th>
<th>Black glass filled polyester PCT-GF30-FR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-O</td>
</tr>
<tr>
<td><strong>CONTACT</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONNECTING PIN Ø</strong></td>
<td>0.76 mm / 1 mm</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 1'000 Vrms</td>
</tr>
</tbody>
</table>

For corresponding socket connectors, see pages 85-100.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th><strong>PP PLATING CODE</strong></th>
<th><strong>TERMINATION</strong></th>
<th><strong>CONNECTING PIN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>10*</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80*</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 800...-20-004101 series

Other plating on request (see page 178 for plating specs).

NNN number of poles. Replace NNN with the requested number of poles, e.g. 800-V3-NNN-22-002101 for a single row version with 8 pins becomes 800-V3-008-22-002101.

---

800-V3-NNN-22-002101
Right angle shrouded pin connector, solder tail, single row
**AVAILABILITY FROM**
2 to 32 contacts
(standard number of contacts: 32)

802-V3-NNN-22-002101
Right angle shrouded pin connector, solder tail, double row
**AVAILABILITY FROM**
4 to 64 contacts
(standard number of contacts: 64)

804-V3-NNN-22-002101
Right angle shrouded pin connector, solder tail, triple row
**AVAILABILITY FROM**
9 to 96 contacts
(standard number of contacts: 96)

800-PP-NNN-20-004101
Right angle pin connector Ø 1 mm, solder tail, single row
**AVAILABILITY FROM**
2 to 64 contacts
(standard number of contacts: 64)

Due to technical progress, all information provided is subject to change without prior notice.
Pin connectors, SMD.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.76 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms
- **COPLANARITY**
- **SMD TERMINATIONS**: Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>V3*</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

*only for 800/802...0001101 series

800-PP-NNN-30-480101
SMD pin connector, low profile, single row, perpendicular mount with self-leveling floating contacts

**AVAILABILITY FROM**
2 to 64 contacts
(standard number of contacts: 64)

For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

802-PP-NNN-30-480101
SMD pin connector, low profile, double row, perpendicular mount with self-leveling floating contacts

**AVAILABILITY FROM**
4 to 72 contacts
(standard number of contacts: 72)

For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

800-PP-NNN-30-001101
SMD pin connector, single row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
3 to 64 contacts
(standard number of contacts: 64)

For connectors having more than 9 contacts, the coplanarity issue is to be addressed specifically

T & R Packaging

802-PP-NNN-30-001101
SMD pin connector, double row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
4 to 72 contacts
(standard number of contacts: 72)

For connectors having more than 9 contacts per row, the coplanarity issue is to be addressed specifically

T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
### PIN CONNECTORS 2.54 mm

**CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW**

**SURFACE MOUNT**

---

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSULATOR</strong></td>
<td>Black glass filled polyester PCT-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-O</td>
</tr>
<tr>
<td><strong>CONTACT</strong></td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td><strong>CONNECTING PIN Ø</strong></td>
<td>0.76 mm</td>
</tr>
<tr>
<td><strong>MECHANICAL LIFE</strong></td>
<td>Min. 500 cycles</td>
</tr>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH</strong></td>
<td>Min. 1'000 V/Vms</td>
</tr>
<tr>
<td><strong>COPLANARITY</strong></td>
<td>Max. 0.1 mm (measured on 25 mm long connectors)</td>
</tr>
</tbody>
</table>

---

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

---

**800-V3-NNN-32-002101**

SMD shrouded pin connector, single row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**

- 3 to 32 contacts
- (standard number of contacts: 32)

For connectors having more than 8 contacts, the coplanarity issue is to be addressed specifically

**T & R Packaging**

---

**802-V3-NNN-32-002101**

SMD shrouded pin connector, double row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**

- 4 to 64 contacts
- (standard number of contacts: 64)

For connectors having more than 8 contacts per row, the coplanarity issue is to be addressed specifically

**T & R Packaging**

---

Other plating on request (see page 178 for plating specs). **NNN number of poles.** Replace **NNN** with the requested number of poles, e.g. 800-V3-NNN-32-002101 for a single row version with 8 pins becomes 800-V3-008-32-002101.
Pin connectors, SMD.

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

**INSULATOR**
- Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
- UL 94V-0

**CONTACT**
- Brass CuZn36Pb3 (C36000)

**CONNECTING PIN Ø**
- **0.76 mm**

**MECHANICAL LIFE**
- Min. 500 cycles

**RATED CURRENT**
- 3 A

**DIELECTRIC STRENGTH**
- Min. 1'000 Vrms

**COPLANARITY**
- **SMD TERMINATIONS**
  - Max. 0.1 mm (measured on 25 mm long connectors)

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>10*</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80*</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

*only for 800...40-001101 series

Other plating on request (see page 178 for plating specs).

**NNN number of poles.** Replace NNN with the requested number of poles, e.g. 800-10-NNN-40-001101 for a single row version with 10 pins becomes 800-10-008-40-001101.

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / PRESS-FIT

Pin connectors, press-fit with compliant pin for solderless mount in PCB plated through holes.

TECHNICAL SPECIFICATIONS (for general specs, see page 42)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Bronze CuSn4Pb4Zn4 (C54400)
- **CONNECTING PIN Ø**: 0.76 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS
- **PCB HOLE Ø**: 1 mm ±0.09/-0.08 mm finished

For corresponding socket connectors, see pages 85-99.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

Other plating on request (see page 178 for plating specs).

**NNN number of poles.** Replace **NNN** with the requested number of poles, e.g., 800-10-**NNN**-65-001101 for a single row version with 8 pins becomes 800-10-**008**-65-001101.

---

**800-PP-NNN-65-001101**
Press-fit pin connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm

- **AVAILABILITY FROM**: 2 to 64 contacts
- **(standard number of contacts: 64)**

**802-PP-NNN-65-001101**
Press-fit pin connector, double row, compliant pin for PCB thickness 1.5 to 2.5 mm

- **AVAILABILITY FROM**: 4 to 72 contacts
- **(standard number of contacts: 72)**

**800-PP-NNN-66-001101**
Press-fit pin connector, single row, compliant pin for PCB thickness 2.1 to 3.2 mm

- **AVAILABILITY FROM**: 2 to 64 contacts
- **(standard number of contacts: 64)**

**802-PP-NNN-66-001101**
Press-fit pin connector, double row, compliant pin for PCB thickness 2.1 to 3.2 mm

- **AVAILABILITY FROM**: 4 to 72 contacts
- **(standard number of contacts: 72)**

Due to technical progress, all information provided is subject to change without prior notice.
**TERMINAL CONNECTORS**

**TECHNICAL SPECIFICATIONS**

**INSULATOR**
- Black glass filled polyester PCT-GF30-FR

**FLAMMABILITY**
- UL 94V-0

**CONTACT**
- Bronze CuSn4Pb4Zn4 (C54400)

**CONNECTING PIN Ø**
- 0.76 mm

**MECHANICAL LIFE**
- Min. 500 cycles

**RATED CURRENT**
- 3 A

**DIELECTRIC STRENGTH**
- Min. 1'000 V RMS

**PCB HOLE Ø**
- 1 mm +0.09/-0.06 mm finished (1.15 ±0.025 mm drill)

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3</td>
<td>Tin</td>
<td>0.75 μm gold</td>
</tr>
</tbody>
</table>

**800-V3-NNN-6B-002101**
- Press-fit shrouded pin connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm
- **AVAILABILITY FROM**
  - 2 to 32 contacts
  - (standard number of contacts: 32)

**802-V3-NNN-6B-002101**
- Press-fit shrouded pin connector, double row, compliant pin for PCB thickness 1.5 to 2.5 mm
- **AVAILABILITY FROM**
  - 4 to 64 contacts
  - (standard number of contacts: 64)

**804-V3-NNN-6B-002101**
- Press-fit shrouded pin connector, triple row, compliant pin for PCB thickness 1.5 to 2.5 mm
- **AVAILABILITY FROM**
  - 9 to 96 contacts
  - (standard number of contacts: 96)

Other plating on request (see page 178 for plating specs).

**NNN number of poles**. Replace **NNN** with the requested number of poles, e.g. 800-V3-NNN-6B-002101 for a single row version with 8 pins becomes 800-V3-008-6B-002101.

Due to technical progress, all information provided is subject to change without prior notice.
Square pin headers, solder tail.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyamide PA-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **CONTACT**: Brass
- **CONNECTING PIN**: 0.635 mm
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>Flash gold</td>
<td>Flash gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>18</td>
<td>Tin</td>
<td>0.25 μm gold</td>
</tr>
</tbody>
</table>

See page 178 for plating specs.

**NNN number of poles.** Replace **NNN** with the requested number of poles, e.g. **890-70-008-100110** for a single row version with 8 pins becomes **890-70-008-10-00110**.

**AVAILABLE CONTACT LENGTHS**

<table>
<thead>
<tr>
<th>CONNECTING PIN A (mm)</th>
<th>SOLDER PIN B (mm)</th>
<th>XXX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3.1</td>
<td>001</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>002</td>
</tr>
<tr>
<td>8.5</td>
<td>3</td>
<td>003</td>
</tr>
<tr>
<td>14.9</td>
<td>3</td>
<td>004</td>
</tr>
</tbody>
</table>

Due to technical progress, all information provided is subject to change without prior notice.
Right angle square pin headers, solder tail.

**TECHNICAL SPECIFICATIONS** *(FOR GENERAL SPECS, SEE PAGE 43)*

- **INSULATOR**: Black glass filled polyamide PA-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass
- **CONNECTING PIN**: 0.635 mm
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 3 A
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS

For corresponding socket connectors, see pages 85-99.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>Flash gold</td>
<td>Flash gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
<tr>
<td>18</td>
<td>Tin</td>
<td>0.25 μm gold</td>
</tr>
</tbody>
</table>

See page 178 for plating specs.

**NNN number of poles**. Replace **NNN** with the requested number of poles, e.g., 890-70-NNN-20-006101 for a single row version with 8 pins becomes 890-70-008-20-006101.

**AVAILABLE CONTACT LENGTHS**

<table>
<thead>
<tr>
<th>CONNECTING PIN A (mm)</th>
<th>XXX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>001</td>
</tr>
<tr>
<td>7</td>
<td>002</td>
</tr>
</tbody>
</table>

Due to technical progress, all information provided is subject to change without prior notice.
PCB HEADER STRIPS 2.54 mm
SINGLE ROW / DOUBLE ROW / SOLDER TAIL

TECHNICAL SPECIFICATIONS

INSULATOR: Black glass filled polyester PCT-GF30-FR
FLAMMABILITY: UL 94V-O
CONTACT: Brass CuZn36Pb3 (C36000)
CONNECTING PIN Ø: 0.5 mm
MECHANICAL LIFE: Min. 100 cycles
RATED CURRENT: 3 A
CONTACT RESISTANCE: Max. 10 mΩ
DIELECTRIC STRENGTH: Min. 1'000 Vrms

For corresponding socket connectors, see pages 69–84.

ORDERING INFORMATION

ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
<tr>
<td>80</td>
<td>Tin</td>
<td>Tin</td>
</tr>
</tbody>
</table>

360-PP-1NN-00-001101
Slotted head strip with solder tail / connecting pin, single row
AVAILABILITY FROM: 2 to 64 contacts
(standard number of contacts: 64)

460-PP-2NN-00-001101
Slotted head strip with solder tail / connecting pin, double row
AVAILABILITY FROM: 4 to 72 contacts
(standard number of contacts: 72)

370-PP-1NN-00-001101
Turret head strip with solder tail / connecting pin, single row
AVAILABILITY FROM: 2 to 64 contacts
(standard number of contacts: 64)

470-PP-2NN-00-001101
Turret head strip with solder tail / connecting pin, double row
AVAILABILITY FROM: 4 to 72 contacts
(standard number of contacts: 72)

380-PP-1NN-00-001101
Solder cup strip with solder tail / connecting pin, single row
AVAILABILITY FROM: 2 to 64 contacts
(standard number of contacts: 64)

480-PP-2NN-00-001101
Solder cup strip with solder tail / connecting pin, double row
AVAILABILITY FROM: 4 to 72 contacts
(standard number of contacts: 72)

Due to technical progress, all information provided is subject to change without prior notice.
PCB header strips for wiring application, wire-wrap.

**TECHNICAL SPECIFICATIONS** (FOR GENERAL SPECS, SEE PAGE 43)

- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **WIRE-WRAP TERMINAL**: 0.635 mm, 3-level
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

For corresponding socket connectors, see pages 69-84.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>CONNECTING PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.25 μm gold</td>
<td>0.25 μm gold</td>
</tr>
</tbody>
</table>

**353-10-1NN-00-001101**
Pin header strip with wire-wrap termination, single row
AVAILABILITY FROM 2 to 64 contacts
(standard number of contacts: 64)

**453-10-2NN-00-001101**
Pin header strip with wire-wrap termination, double row
AVAILABILITY FROM 4 to 72 contacts
(standard number of contacts: 72)

**363-10-1NN-00-001101**
Slotted head strip with wire-wrap termination, single row
AVAILABILITY FROM 2 to 64 contacts
(standard number of contacts: 64)

**463-10-2NN-00-001101**
Slotted head strip with wire-wrap termination, double row
AVAILABILITY FROM 4 to 72 contacts
(standard number of contacts: 72)

**373-10-1NN-00-001101**
Turret head strip with wire-wrap termination, single row
AVAILABILITY FROM 2 to 64 contacts
(standard number of contacts: 64)

**473-10-2NN-00-001101**
Turret head strip with wire-wrap termination, double row
AVAILABILITY FROM 4 to 72 contacts
(standard number of contacts: 72)

**383-10-1NN-00-001101**
Solder cup strip with wire-wrap termination, single row
AVAILABILITY FROM 2 to 64 contacts
(standard number of contacts: 64)

**483-10-2NN-00-001101**
Solder cup strip with wire-wrap termination, double row
AVAILABILITY FROM 4 to 72 contacts
(standard number of contacts: 72)

Other plating on request (see page 178 for plating specs).
**NN number of poles.** Replace NN with the requested number of poles, e.g., 453-10-2NN-00-001101 for a double row version with 16 pins becomes 453-10-16-00-001101.

Due to technical progress, all information provided is subject to change without prior notice.
MALE JUMPERS
2.54 mm GRID

Available with or without insulator and with 2.54, 5.08 or 7.62 mm pitch. For use with standard socket connectors.

TECHNICAL SPECIFICATIONS
(for general specs, see page 43)

- **INSULATOR**: Black glass filled polyester PBT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.56 mm
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 Vrms

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PLATING CODE</th>
<th>TERMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.25 μm gold</td>
</tr>
</tbody>
</table>

See page 178 for plating spec.

Jumpers for socket connectors, B = 2.54 mm, not insulated (Fig. 1)
999-11-110-10

Jumpers for socket connectors, B = 2.54 mm (Fig. 2):
999-11-210-10
Black insulator
999-11-210-11
Red insulator

Jumpers for socket connectors, B = 5.08 mm, not insulated (Fig. 3)
999-11-112-10

Jumpers for socket connectors, B = 5.08 mm (Fig. 4):
999-11-220-10
Black insulator
999-11-220-11
Red insulator

Jumper without insulator with wire Ø 0.50 mm instead of 0.56 mm.

<table>
<thead>
<tr>
<th>WIDTH B (MM)</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.54</td>
<td>999-51-110-10</td>
</tr>
<tr>
<td>5.08</td>
<td>999-51-112-10</td>
</tr>
<tr>
<td>7.62</td>
<td>999-51-113-10</td>
</tr>
</tbody>
</table>

OPTION

Due to technical progress, all information provided is subject to change without prior notice.
Female jumpers, colour coded, closed or open top of insulator body.

**TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)**

- **INSULATOR**: Black glass filled polyester PBT-GF30-FR
- **FLAMMABILITY**: UL 94V-O
- **CONTACT**: Phosphor bronze
- **MATING PIN**: 0.635 mm
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 1 A (2 mm) / 3 A (2.54 mm)
- **CONTACT RESISTANCE**: Max. 20 mΩ
- **DIELECTRIC STRENGTH**: Min. 500 Vrms

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

- **PP PLATING CODE**: 19
- **TERMINATION**: Flash gold

---

2 mm jumpers for 0.5 mm pin headers, closed body:

- **999-19-220-00**: Black insulator

2 mm jumpers for 0.5 mm pin headers, stackable open body:

- **999-19-320-00**: Black insulator
- **999-19-320-02**: Red insulator
- **999-19-320-06**: Blue insulator

2.54 mm jumpers for 0.635 mm pin headers, closed body:

- **999-19-210-00**: Black insulator
- **999-19-210-02**: Red insulator
- **999-19-210-06**: Blue insulator

2.54 mm jumpers for 0.635 mm pin headers, stackable open body:

- **999-19-310-00**: Black insulator
- **999-19-310-02**: Red insulator
- **999-19-310-06**: Blue insulator

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Due to technical progress, all information provided is subject to change without prior notice.