PCB CONNECTORS
# QUICK SELECTOR CHART

## PCB CONNECTORS

### GRID

<table>
<thead>
<tr>
<th></th>
<th>1 mm</th>
<th>1.27 mm</th>
<th>2 mm (* 1.778 / 1.8 mm)</th>
<th>2.54 mm MATING PIN dia. 0.47 mm</th>
<th>2.54 mm MATING PIN dia. 0.76 mm (* 0.1 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SINGLE ROW</td>
<td>DOUBLE ROW</td>
<td>TRIPLE ROW</td>
<td>SINGLE ROW</td>
<td>DOUBLE ROW</td>
</tr>
</tbody>
</table>

### SOCKET CONNECTORS

#### Straight solder tail
- 44
- 46
- 46
- 65
- 65

#### Right angle solder tail
- 48
- 48
- 80
- 76

#### Surface mount perpendicular floating pin
- 62
- 77
- 74

#### Surface mount perpendicular gull-wing
- 49
- 49
- 61
- 77

#### Surface mount parallel
- 44
- 50
- 78

#### Solderless compliant press-fit
- 63
- 79

#### Wire-wrap
- 81
- 81

#### Carrier
- 83

### PIN CONNECTORS

#### Straight solder tail
- 45
- 51
- 51
- 65
- 65

#### Right angle solder tail
- 52
- 52
- 65

#### Surface mount perpendicular floating pin
- 53
- 53

#### Surface mount perpendicular gull-wing
- 54
- 66

#### Surface mount parallel
- 46
- 66

#### Solderless compliant press-fit
- 67

### SQUARE PIN CONNECTORS

#### Straight solder tail
- 68
- 68

### HEADERS / JUMPERS

- Slotted head
- Turret head
- Solder cup

- Male jumpers
- Female jumpers
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 Vrms/150 Vac (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**

- **CLIP RETENTION**: Min. 40 N (no displacement under axial force applied)
- **CONTACT (SLEEVE / CLIP) RETENTION**: Min. 3.3 N acc. to MIL-DTL-83734, pt 4.6.4.2

**ELECTRICAL CHARACTERISTICS**

- **INSULATION RESISTANCE BETWEEN ANY TWO ADJACENT CONTACTS**: Min. 10'000 MΩ at 500 Vac
- **CAPACITANCE BETWEEN ANY TWO ADJACENT CONTACTS**: Max. 1 pF
- **AIR AND CREEPAGE DISTANCES BETWEEN ANY TWO ADJACENT CONTACTS** (SERIES)
  - 3xx/4xx/7xx: 0.7 / 0.85 / 0.7
  - 8xx: 0.5 / 0.4 / 0.5
  - 86x: 0.5

**ENVIRONMENTAL CHARACTERISTICS**

The sockets withstand the following environmental tests without mechanical and electrical defects:

- Damp heat cyclic IEC 60512-11-12.11m / 60068-2-30Db: 25/55 °C, 90 – 100 %rH, 1 cycle of 24 h
- Cold steady state IEC 60512-11-10.11j / 60068-2-1.1A: -55 °C, 2 h
- Sinusoidal vibrations IEC 60512-6-8.6d / 60068-2-6.Fc: 10 to 500 Hz, 10 g, 1 octave/min., 10 cycles for each axis
- Shock IEC 60512-6-3.6c / 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 ± 0.09/-0.06 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 HOLE PLATING**

PCB surface finish
- Tin
  - 5-15 μm tin over min. 25 μm copper
- Copper
  - min. 25 μm copper
- Gold over nickel
  - 0.05-0.2 μm gold over 2.5-5 μm nickel
  - over min. 25 μm copper

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 (4 FINGER)
- Beryllium copper (C17200)

MATING PIN Ø
- 0.36 to 0.46 mm

FORCES
- 0.25 N typ. insertion
- 0.15 N typ. withdrawal

(polished steel gauge Ø 0.40 mm)

MECHANICAL LIFE
- Min. 500 cycles

RATED CURRENT
- 1 A

CONTACT RESISTANCE
- Max. 10 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 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

Due to technical progress, all information provided is subject to change without prior notice.
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-0
- **CONTACT**: Brass CuZn36Pb3 (C36000)
- **CONNECTING PIN Ø**: 0.40 mm
- **MECHANICAL LIFE**: Min. 500 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 500 Vrms
- **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>

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.

**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

**T & R Packaging**

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

### 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

### 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>
<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-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.*
SOCKET CONNECTORS 1.27 mm
SINGLE ROW / 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 (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>
<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.
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 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>
<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. 851-87-NNN-20-001101 for a single row version with 8 pins becomes 851-87-008-20-001101.

**SOCKET CONNECTORS 1.27 mm**

SINGLE ROW / DOUBLE ROW / TRIPLE ROW / SOLDER TAIL, RIGHT ANGLE

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)

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 / SURFACE 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

RATED CURRENT
1 A

CONTACT RESISTANCE
Max. 20 mΩ

DIELECTRIC STRENGTH
Min. 500 Vrms

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>

851-PP-NNN-30-001101
SMD socket 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

853-PP-NNN-30-001101
SMD socket 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

853-PP-NNN-30-002101
SMD socket 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

851-PP-NNN-30-136101
SMD socket 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

Due to technical progress, all information provided is subject to change without prior notice.
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 (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-MNN-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-MNN-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-MNN-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

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>

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-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 0.25 μm gold</td>
<td>0.25 μm gold</td>
<td></td>
</tr>
<tr>
<td>80 Tin Tin</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. 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.
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 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

<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-30-001101 for a double row version with 16 pins becomes 852-10-016-30-001101.

Due to technical progress, all information provided is subject to change without prior notice.
PINCONECTORS1.27mm
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-0
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)

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
(standard number of contacts: 100)
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
(standard number of contacts: 25 and 50)
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
(standard number of contacts: 50)
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 (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**:
  - Insertion: 2 N typ.
  - Withdrawal: 1 N typ. (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-41-687101**

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.
Straight pin connector, single row, grid spacing 1.778 mm

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

For corresponding socket connectors, see page 55.

**Ordering Information**

<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**-00-012101 for a single row version with 8 pins becomes 350-10-**08**-00-012101.

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
- **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>
<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>

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

- AVAILABLE 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

- AVAILABLE 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

- AVAILABLE 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

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

831-PP-NNN-10-273101

833-PP-NNN-10-273101

831-PP-NNN-10-001101

833-PP-NNN-10-001101

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-10-001101 for a double row version with 16 pins becomes 833-87-016-10-001101.

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 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, Ø 0.50 mm

**FORCES**
0.7 N typ. insertion, 0.4 N typ. withdrawal

**MECHANICAL LIFE**
Min. 500 cycles

**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**

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

**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)

*Hard metric* PCB socket connectors, solder tail.

**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.**
**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**

<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>

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.
60

TECHNICAL SPECIFICATIONS (FOR GENERAL SPECS, SEE PAGE 43)

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 0.66 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
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>
<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>

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)

Due to technical progress, all information provided is subject to change without prior notice.
### 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**:
- Insertion: 0.4 N typ. (polished steel gauge Ø 0.46 mm)
- Withdrawal: 0.7 N typ.

**Mechanical Life**: Min. 500 cycles

**Rated Current**: 3 A

**Contact Resistance**: Max. 10 mΩ

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

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

**Rated Current**: 3 A

**Contact Resistance**: Max. 10 mΩ

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

**Cooperancy**: 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>
<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>

**SMD Terminations**

- **SMD Perpendicular Mount**
  - Max. 0.1 mm (measured on 25 mm long connectors)

**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-30-001101 for a double row version with 16 pins becomes 833-87-016-30-001101.

---

**Socket Connectors 2 mm**

**Single Row / Double Row / Surface Mount**

*Hard metric* PCB socket connectors, SMD perpendicular mount.

<table>
<thead>
<tr>
<th>Socket Connectors</th>
<th>Single Row</th>
<th>Double Row</th>
<th>Surface Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>831-PP-NNN-30-001101</strong></td>
<td>SMD socket connector, single row, perpendicular mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>833-PP-NNN-30-001101</strong></td>
<td>SMD socket connector, double row, perpendicular mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>831-PP-NNN-30-242101</strong></td>
<td>SMD socket connector, single row, perpendicular mount, polarised</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>833-PP-NNN-30-245101</strong></td>
<td>SMD socket connector, double row, perpendicular mount, polarised</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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

**SINGLE ROW / QUAD ROW / SURFACE MOUNT**

"Hard metric" PCB socket connectors, SMD mount.

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

- **INSULATOR**: Black glass filled polymer LCP-GF30-FR (PCT-GF30-FR for 837-83-30-291101)
- **FLAMMABILITY**: UL 94-V-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
- **CURRENT**: 3 A
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **DIELECTRIC STRENGTH**: Min. 1'000 V RMS
- **COPLANARITY**: Max. 0.1 mm (measured on 25 mm long connectors)
- **SMD TERMINATIONS**: For corresponding pin connectors, see pages 64–68.

**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>

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.

See page 43

T & R Packaging

Due to technical progress, all information provided is subject to change without prior notice.
# Technical Specifications

**Socket Connectors 2 mm**

**Single Row / Double Row / Press-Fit**

## Technical Specifications (For General Specs, See Page 43)

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insulator</strong></td>
<td>Black glass filled polymer LCP-GF30-FR</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>UL 94V-0</td>
</tr>
<tr>
<td><strong>Sleeve</strong></td>
<td>Bronze CuSn4Pb4Zn4 (C54400)</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 0.40 to 0.66 mm, 0.50 mm</td>
</tr>
<tr>
<td><strong>Forces</strong></td>
<td>0.7 N typ. insertion, 0.4 N typ. withdrawal (polished steel gauge Ø 0.46 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>
<tr>
<td><strong>PCB Hole Ø</strong></td>
<td>0.7 ±0.07/-0.05 mm finished (0.8 ±0.025 mm drill)</td>
</tr>
</tbody>
</table>

For corresponding pin connectors, see pages 64-68.

## Ordering Information

**ROHS Compliant Parts**

<table>
<thead>
<tr>
<th>Plating Code</th>
<th>Sleeve</th>
<th>Clip</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP 87</td>
<td>Tin</td>
<td>Flash gold</td>
<td>83 Tin 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**: 2 to 50 contacts

(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**: 4 to 100 contacts

(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

---

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

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

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

*Hard metric* PCB pin connectors, 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 **830-10-008-10-001101**.

---

**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

---

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

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

*Hard metric* PCB pin connectors, 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

For other plating on request (see page 176 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**

---

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

- **INSULATOR**: Black glass filled polymer LCP-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 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

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

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

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

---

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

**Insulator:** Black glass filled polymer LCP-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

**Cooperanity 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>

“Hard metric” PCB pin connectors, SMD mount.

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

---

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-O
- **CONTACT**: Brass
- **CONNECTING PIN**: 0.5 mm
- **MECHANICAL LIFE**: Min. 100 cycles
- **RATED CURRENT**: 1 A
- **DIELECTRIC STRENGTH**: Min. 500 V RMS

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)
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-O

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

RATED CURRENT
1 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 176 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.

PCB CONNECTORS

Due to technical progress, all information provided is subject to change without prior notice.
Socket connector strips, 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**:
  - Insertion: 2 N typ.
  - Withdrawal: 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 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>

**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)

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

**NN number of poles.** Replace **NN** with the requested number of poles, e.g. **410-83-2NN-41-001101** for a double row version with 16 pins becomes **410-83-16-41-001101**.

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, 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**

- PP PLATING CODE
  - 87: Tin
  - 83: Tin 0.75 μm gold

**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)

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.

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

**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
- **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>

**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 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>

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.
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

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>
<th>NN number of poles</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
<td>Replace NN with the requested number of poles, e.g. 416-83-2NN-41-007101 for a double row version with 16 pins becomes 416-83-216-41-007101.</td>
</tr>
</tbody>
</table>

**CONTACT LENGTHS**

<table>
<thead>
<tr>
<th>AVAILABLE CONTACT LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT LENGTH</td>
</tr>
<tr>
<td>L1 (mm)</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>22</td>
</tr>
<tr>
<td>33</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
- **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>
<th>NNN number of poles</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Tin</td>
<td>Flash gold</td>
<td>Replace NNN with the requested number of poles, e.g. 803-83-NNN-10-132101 for a double row version with 16 pins becomes 803-83-016-10-132101.</td>
</tr>
<tr>
<td>83</td>
<td>Tin</td>
<td>0.75 μm gold</td>
<td></td>
</tr>
</tbody>
</table>

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

- **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 connector, 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

**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>

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 499-83-216-10-003101.

---

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)
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
- **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**

<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>

**Socket Connectors 2.54 mm**

**MATING PIN Ø**: 0.47 mm / SINGLE ROW / DOUBLE ROW / SURFACE MOUNT

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

**NN number of poles**. Replace NN with the requested number of poles, e.g.

- 410-87-2NN-41-105101 for a double row version with 16 pins becomes 410-87-216-41-105101.

**T & R Packaging**

- **314-PP-1NN-01-899101**
  - SMD socket connector, low profile, single row, perpendicular mount with self-leveling 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

- **414-PP-2NN-41-134101**
  - SMD socket connector, low profile, double row, perpendicular mount with self-leveling 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

- **310-PP-1NN-41-105101**
  - 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

- **410-PP-2NN-41-105101**
  - 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

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-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/mm
- **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

<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>

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

See page 43

T & R Packaging

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.

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, 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**
  - Insertion: 2 N typ.
  - Withdrawal (polished steel gauge Ø 0.43 mm): 1 N typ.
- **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 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>

346-PP-NN-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-NN-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)

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**: Bronze CuSn4Pb4Zn4 (C54400)
- **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
- **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>
</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>

**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.

For further information, contact: 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 with wire-wrap terminations.

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

- **PP PLATING CODE**
  - 87: Tin
  - 83: Tin
- **SLEEVE CLIP**
  - Flash gold
  - 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. 422-83-2NN-41-001101 for a double row version with 16 pins becomes 422-83-216-41-001101.

**322-PP-NN-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-NN-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)

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 (FOR GENERAL SPECS, SEE PAGE 43)
- **INSULATOR**: Black glass filled polyester PCT-GF30-FR
- **FLAMMABILITY**: UL 94V-0
- **SLEEVE**: Brass CuZn36Pb3 (C36000) (polished steel gauge Ø 0.43 mm)
- **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
- **MECHANICAL LIFE**: Min. 500 cycles
- **CONTACT RESISTANCE**: Max. 10 mΩ
- **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
- AVAILABLE 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
- AVAILABLE 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>

Other plating on request (see page 178 for plating specs). NN number of poles. Replace NN with the requested number of poles, e.g. 426-83-2NN-41-001101 for a double row version with 16 pins becomes 426-83-216-41-001101.
SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.47 mm / SINGLE ROW / CARRIER ASSEMBLIES

“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-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

For corresponding pin connectors, see pages 101-108.

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>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>

712-PP-NN-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-NN-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-NN-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

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

NN number of poles. Replace NN with the requested number of poles, e.g. 714-83-NN-41-001101 for a single row version with 8 pins becomes 714-83-08-41-001101.

Due to technical progress, all information provided is subject to change without prior notice.
“Zero profile” socket connectors. Single socket contacts for solder and press-fit solderless 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-0
- **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
- **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. 714-83-1NN-31-018101 for a single row version with 8 pins becomes 714-83-08-31-018101.

Other technical specifications and diagrams are also included in the document.
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 (6 FINER)**  
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-10-268101 for a double row version with 16 pins becomes 803-87-016-10-268101.

---

**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.
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 (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. 1000 Vrms

For corresponding pin connectors, see pages 109-119.

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>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-10-012101 for a double row version with 16 pins becomes 803-87-016-10-012101.

---

**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 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / TRIPLE ROW
SOLDER TAIL

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 (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

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 176 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)**

<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-0</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 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-YYY-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-10143101

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)

---

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

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

SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / SOLDER TAIL

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

NNN number of poles. Replace NNN with the requested number of poles, e.g. 801-87-NNN-10-143101 for a double row version with 16 pins becomes 801-87-016-10-143101.

For corresponding pin connectors, see pages 109-119.
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

- **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 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

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-10-005101**

- 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 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / SOLDER TAIL

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

PP PLATING CODE SLEEVE CLIP
87 Tin Flash gold
83 Tin 0.75 μm gold

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 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 (8 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

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-20-001101

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-YYY-20-442101

Right angle short socket 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

801-PP-NNN-20-001101

Right angle short socket connector, solder tail, single row

**AVAILABILITY FROM**

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

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, 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

<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

Other plating on request (see page 178 for plating specs)
SOCKET CONNECTORS 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / SURFACE MOUNT

Socket connectors, SMD perpendicular 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 (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 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-30-480101
SMD socket connector, single row, perpendicular mount with self-levelling floating contacts

AVAILABILITY FROM
2 to 12 contacts
(sstandard 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-30-480101
SMD socket connector, double row, perpendicular mount with self-levelling floating contacts

AVAILABILITY FROM
4 to 64 contacts
(sstandard 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
(sstandard 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
(sstandard 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

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 94-V-0
- **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 9 contacts, the coplanarity issue is to be addressed specifically

See page 43
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 9 contacts per row, 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. 803-87-NNN-30-001101 for a double row version with 16 pins becomes 803-87-016-30-001101.
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-0</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>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 V/μs</td>
</tr>
<tr>
<td>SMD Terminations</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-02-146

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

TECHNICAL SPECIFICATIONS

**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

**CONTACT RESISTANCE**
Max. 10 mΩ

**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 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-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 2.54 mm
MATING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / PRESS-FIT

Receptacle connectors, press-fit with compliant pin for solderless mount in PCB plated through holes and connecting pin for board stacking.

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>Bronze CuSn4Pb4Zn4 (C54400)</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</td>
</tr>
<tr>
<td>(polished steel gauge Ø 0.76 mm)</td>
<td></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 Vrms</td>
</tr>
<tr>
<td>PCB HOLE Ø</td>
<td>1 mm +0.09/-0.06 mm finished (1.15 ±0.025 mm drill)</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-65-461101
Press-fit receptacle connector, single row, compliant pin for PCB thickness 1.5 to 2.5 mm
AVAILABILITY FROM 2 to 36 contacts
(standard number of contacts: 36)

803-PP-NNN-65-461101
Press-fit receptacle 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)

Other plating on request (see page 178 for plating specs).
NNN number of poles. Replace NNN with the requested number of poles, e.g. 801-87-NNN-65-461101 for a double row version with 16 pins becomes 801-87-016-65-461101.
Socket Connectors 2.54 mm
Mating Pin Ø 0.76 mm / Single Row / Double Row / Wire-Wrap

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

<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-53-001101
Wire-wrap socket connector, height 7 mm, 3-level, single row
Availability From
2 to 50 contacts
(standard number of contacts: 50)

803-PP-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)

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 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 Vrms

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)

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)

Socket connectors, solder tail.

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

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)

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulator</td>
<td>Black glass filled polyester PCT-GF30-FR</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL 94V-O</td>
</tr>
<tr>
<td>Contact</td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td>Connecting Pin Ø</td>
<td>0.47 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>Dielectric Strength</td>
<td>Min. 1'000 Vrms</td>
</tr>
</tbody>
</table>

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.
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

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>

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)

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

AVAILABILITY FROM: 2 to 32 contacts

YY number of poles: please consult for ordering code

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.

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

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>
</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.

350-PP-1YY-01-609101
Straight pin connector, low profile, height 4 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-00-013101
Straight pin connector, height 4.1 mm, solder tail, single row
- AVAILABILITY FROM 2 to 64 contacts
- (standard number of contacts: 64)

450-PP-2NN-00-013101
Straight pin connector, height 4.1 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.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.47 mm / SINGLE ROW / DOUBLE ROW
SOLDER TAIL

Pin interconnect 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 69-80.

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.

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)

AVAILABLE CONTACT LENGTHS

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

Other lengths on request

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.
**PIN CONNECTORS 2.54 mm**

CONNECTING PIN Ø 0.47 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**: 0.47 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>

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 499-10-208-10-009101.

---

**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)

---

Due to technical progress, all information provided is subject to change without prior notice.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.47 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

**CONTACT**
Brass CuZn36Pb3 (C36000)

**CONNECTING PIN Ø**
0.47 mm

**MECHANICAL LIFE**
Min. 500 cycles

**RATED CURRENT**
3 A

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

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

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

For corresponding socket connectors, see pages 69-84.

**350-PP-1NN-01-899101**
SMD pin connector, low profile, single row, perpendicular mount with self-leveling floating contacts

**AVAILABILITY FROM**
2 to 64 contacts

(Total number of contacts: 64)

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

T & R Packaging

**450-PP-2NN-01-899101**
SMD pin connector, low profile, double row, perpendicular mount with self-leveling floating contacts

**AVAILABILITY FROM**
4 to 72 contacts

(Total number of contacts: 72)

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

T & R Packaging

**350-PP-1NN-00-108101**
SMD pin connector, single row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
3 to 64 contacts

(Total number of contacts: 64)

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

T & R Packaging

**450-PP-2NN-00-108101**
SMD pin connector, double row, perpendicular mount with gull-wing terminations

**AVAILABILITY FROM**
4 to 72 contacts

(Total 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, SMD.

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

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>

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

**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.

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

<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>

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

**PIN CONNECTORS 2.54 mm**

**CONNECTING PIN Ø 0.47 mm / SINGLE ROW / DOUBLE ROW / PRESS-FIT**

- **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)
Pin connectors, solder tail.

TECHNICAL SPECIFICATIONS

- **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>
</tbody>
</table>

PIN CONNECTORS 2.54 mm

CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW
SOLDER TAIL

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-10-101001 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.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / TRIPLE ROW
SOLDER TAIL

**TECHNICAL SPECIFICATIONS**

**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 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>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.

---

**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.
**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>
</tr>
</thead>
<tbody>
<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-V3-NNN-12-002101 for a single row version with 8 pins becomes 800-V3-008-12-002101.

**PP PLATING CODE**

- **V3**
  - 800-V3-NNN-12-002101
    - Straight shrouded pin connector, solder tail, single row
    - **AVAILABILITY FROM**: 2 to 32 contacts
    - (standard number of contacts: 32)
  
- **V3**
  - 802-V3-NNN-12-002101
    - Straight shrouded pin connector, solder tail, double row
    - **AVAILABILITY FROM**: 4 to 64 contacts
    - (standard number of contacts: 64)

- **V3**
  - 804-V3-NNN-12-002101
    - Straight shrouded pin connector, solder tail, triple row
    - **AVAILABILITY FROM**: 9 to 96 contacts
    - (standard number of contacts: 96)

- **V3**
  - 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**

**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>
</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>

For corresponding socket connectors, see pages 85-99.

**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)

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

For corresponding socket connectors, see pages 85-100.

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...-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 2.54 mm
CONNECTING 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
- **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...30-001101 series

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 V rms

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...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-V3-NNN-32-002101 for a single row version with 8 pins becomes 800-V3-008-32-002101.

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 43)
INSULATOR: Black glass filled polyester PCT-GF30-FR
FLAMMABILITY: UL 94V-O
CONTACT: Bronze CuSn4Pb4Zn4 (C54400)
CONNECTING PIN Ø: 0.76 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 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>

800-PP-NNN-66-001101
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-66-001101
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.
PIN CONNECTORS 2.54 mm
CONNECTING PIN Ø 0.76 mm / SINGLE ROW / DOUBLE ROW / TRIPLE 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 43)

- **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>

**PP PLATING CODE**

- **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-O
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-NNN-10-001101 for a single row version with 8 pins becomes 890-70-008-10-001101.

890-PP-NNN-10-XXX101
Straight square pin header, solder tail, single row
AVAILABILITY FROM 2 to 40 contacts
(standard number of contacts: 40)

892-PP-NNN-10-XXX101
Straight square pin header, solder tail, double row
AVAILABILITY FROM 4 to 80 contacts
(standard number of contacts: 80)

894-PP-NNN-10-001101
Straight square pin header, solder tail, triple row
Only contact length code 001 available
AVAILABILITY FROM 9 to 120 contacts
(standard number of contacts: 120)

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>5</td>
<td>6</td>
<td>001</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>002</td>
</tr>
<tr>
<td>5.6</td>
<td>8.5</td>
<td>003</td>
</tr>
<tr>
<td>6</td>
<td>14.9</td>
<td>004</td>
</tr>
</tbody>
</table>
TECHNICAL SPECIFICATIONS

- **Insulator**: Black glass filled polyamide PA-GF30-FR
- **Flammability**: UL 94V-0
- **Contact**: Brass
- **Connecting Pin Ø**: 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-NNN-20-008101 for a single row version with 8 pins becomes 890-70-008-20-008101.

890-PP-NNN-20-XXX101

Right angle square pin header, solder tail, single row

- **Availability from**: 2 to 40 contacts (standard number of contacts: 40)

892-PP-NNN-20-XXX101

Right angle square pin header, solder tail, double row

- **Availability from**: 4 to 80 contacts (standard number of contacts: 80)

894-PP-NNN-20-001101

Right angle square pin header, solder tail, triple row

- **Availability from**: 9 to 120 contacts (standard number of contacts: 120)

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>
PCB HEADER STRIPS 2.54 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
0.5 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 2.54 mm
SINGLE ROW / DOUBLE ROW / 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 V RMS

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>

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 453-10-216-00-001101.

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

Jumpers for socket connectors, B = 2.54 mm, not insulated (Fig. 1)
999-11-113-10

Jumpers for socket connectors, B = 2.54 mm (Fig. 2):
999-11-230-10  Black insulator
999-11-210-11  Red insulator

OPTION
Jumpers 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>

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>INSULATOR</th>
<th>Black glass filled polyester PBT-GF30-FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>UL 94V-O</td>
</tr>
<tr>
<td>CONTACT</td>
<td>Brass CuZn36Pb3 (C36000)</td>
</tr>
<tr>
<td>CONNECTING PIN Ø</td>
<td>0.56 mm</td>
</tr>
<tr>
<td>MECHANICAL LIFE</td>
<td>Min. 100 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 Vrms</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION ROHS COMPLIANT PARTS

<table>
<thead>
<tr>
<th>P 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.
Female jumpers, colour coded, closed or open top of insulator body.

**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 PBT-GF30-FR</td>
</tr>
<tr>
<td><strong>FLAMMABILITY</strong></td>
<td>UL 94V-0</td>
</tr>
<tr>
<td><strong>CONTACT</strong></td>
<td>Phosphor bronze</td>
</tr>
<tr>
<td><strong>MATING PIN</strong></td>
<td>0.635 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 (2 mm) / 3 A (2.54 mm)</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 Vrms</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION ROHS COMPLIANT PARTS**

<table>
<thead>
<tr>
<th>PP PLATING CODE</th>
<th>TERMINATION</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Flash gold</td>
<td>PP plating code</td>
</tr>
</tbody>
</table>

See page 178 for plating specs.

---

### Female Jumpers 2 mm / 2.54 mm Grid

**Female jumpers, colour coded, closed or open top of insulator body.**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 mm / 2.54 mm</td>
<td>Female jumpers</td>
</tr>
<tr>
<td>0.5 mm pin headers</td>
<td>0.635 mm pin headers</td>
</tr>
</tbody>
</table>

#### Female Jumpers 2 mm for 0.5 mm Pin Headers, Closed Body:

- **Part Number:** 999-19-220-00
- **Termination:** Black insulator

#### Female Jumpers 2 mm for 0.5 mm Pin Headers, Stackable Open Body:

- **Part Number:** 999-19-320-00
- **Termination:** Black insulator

#### Female Jumpers 2.54 mm for 0.635 mm Pin Headers, Closed Body:

- **Part Number:** 999-19-210-00
- **Termination:** Black insulator

- **Part Number:** 999-19-210-02
- **Termination:** Red insulator

- **Part Number:** 999-19-210-06
- **Termination:** Blue insulator

#### Female Jumpers 2.54 mm for 0.635 mm Pin Headers, Stackable Open Body:

- **Part Number:** 999-19-310-00
- **Termination:** Black insulator

- **Part Number:** 999-19-310-02
- **Termination:** Red insulator

- **Part Number:** 999-19-310-06
- **Termination:** Blue insulator

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