

System pitch 10.16 mm (0.400 inch) - SU/BU BUZ 10.16HP/02/180 AG BK BX

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High-performance female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm² (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

General ordering data

| | |
|-----------------------------|---|
| Material number | 1924540000 |
| Short text for material | BUZ 10.16HP/02/180 AG BK BX |
| Article - short description | PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm ² , Box |
| EAN | 4032248564057 |
| Qty. | 50 pc(s). |
| Packaging | Box |

Creation date February 14, 2011 12:41:33 PM CET

Last update 29.11.2010 / We reserve the right to make technical changes.

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Technical data

System parameters

| | | | |
|---|--------------------------|---|------------------------|
| Conductor connection system | Clamping yoke connection | Outgoing direction of conductor | 180° |
| Pitch in mm | 10.16 mm | Pitch in inch | 0.4 inch |
| No. of poles | 2 | No. of rows | 1 |
| Screwdriver blade | 1.0 x 5.5 | Screwdriver blade standard | DIN 5264 |
| Tightening torque, min. | 1.2 Nm | Tightening torque, max. | 1.5 Nm |
| Clamping screw | M 4 | Stripping length | 12 mm |
| L1 in mm | 10.16 mm | L1 in inch | 0.4 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 | Electric shock protection to DIN VDE 57 106 | Safe from finger touch |

Material data

| | | | |
|--|---------------------|--|--------------|
| Insulating material | PA GF | Colour | black |
| colour chart | Similar to RAL 9011 | Flammability class UL 94 | V-0 |
| CTI | ≥ 600 | Contact material | Copper alloy |
| Contact surface | silver-plated | Highest continuous operating temperature, min. | -25 °C |
| Highest continuous operating temperature, max. | 130 °C | | |

Connectable conductors

| | | | |
|---|----------------------|---|--------------------|
| Clamping range, rated connection, min. | 0.2 mm ² | Clamping range, rated connection, max. | 16 mm ² |
| Conductor connection cross-section AWG, min. | AWG 22 | Conductor connection cross-section AWG, max. | AWG 6 |
| Solid, min. H05(07) V-U | 0.2 mm ² | Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, max. H07V-R | 16 mm ² | Stranded, min. H07V-R | 6 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² | Flexible, max. H05(07) V-K | 16 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm ² | with wire end ferrule, DIN 46228 pt 1, max. | 16 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm ² | with plastic collar ferrule, DIN 46228 pt 4, max. | 10 mm ² |
| Gauge to EN 60999 a x b; ø | 5.3mm (B6) | | |

DIN IEC rating data

| | | | |
|--|-------------------|--|---------|
| Rated current, min. No. of poles (Tu=20°C) | 78 A | Rated current, max. No. of poles (Tu=20°C) | 68 A |
| Rated current, no. of poles (Tu=40°C), min. | 72 A | Rated current, no. of poles (Tu=40°C), max. | 61 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 1,000 V | Rated voltage for overvoltage class/pollution severity III/2 | 1,000 V |
| Rated voltage at overvoltage category/pollution degree III/3 | 1,000 V | Rated impulse withstand voltage for overvoltage class/pollution severity II/2 | 6 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 8 kV | Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 8 kV |
| Short-time withstand current resistance | 3 x 1s mit 1000 A | | |

CSA rating data

| | | | |
|-------------------------------|--------|-------------------------------|-------|
| Rated voltage (Use group B) | 600 V | Rated current (use group B) | 54 A |
| Rated voltage (Use group C) | 600 V | Rated current (use group C) | 54 A |
| Rated voltage (use group D) | 600 V | Rated current (use group D) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 6 |

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Technical data

UL 1059 rating data

| | | | |
|-------------------------------|--------|-------------------------------|-------|
| Rated voltage (use group B) | 600 V | Rated current (use group B) | 54 A |
| Rated voltage (use group C) | 600 V | Rated current (use group C) | 54 A |
| Rated voltage (use group D) | 600 V | Rated current (use group D) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 6 |

Approvals

Approvals CSA; CURUS; GOSTME25;
ROHS

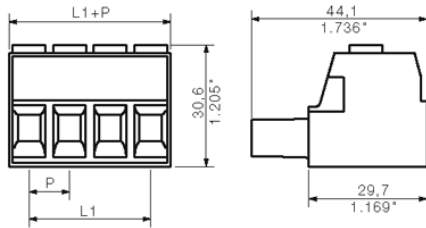
Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001284 | ETIM 4.0 | EC002637 |
| UNSPSC | 30-21-18-10 | eClass 5.1 | 27-26-07-04 |
| eClass 6.0 | 27-26-07-04 | | |

Notes

Notes

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Datasheet**System pitch 10.16 mm (0.400 inch) - SU/BU
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**System pitch 10.16 mm (0.400 inch) - SU/BU
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Mating connector (fully pluggable)
SU 10.16HP/180G


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity, additional fixing and integral positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 6 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|--------------------------------|---|---------------|-----------|-----------|
| 1813410000 | SU 10.16HP/02/180G 3.5AG BK BX | PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 2, 180°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297603 | 50 pc(s). | Box |

SU 10.16HP/270G


Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|--------------------------------|---|---------------|-----------|-----------|
| 1813490000 | SU 10.16HP/02/270G 3.5AG BK BX | PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 2, 270°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297702 | 50 pc(s). | Box |

System pitch 10.16 mm (0.400 inch) - SU/BU BUZ 10.16HP/02/180 AG BK BX

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Mating connector (fully pluggable)

SU 10.16HP/90G



Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|-------------------------------|--|---------------|-----------|-----------|
| 1813330000 | SU 10.16HP/02/90G 3.5AG BK BX | PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297511 | 50 pc(s). | Box |

SUZ 10.16HP 180G AG



Power on board - 100% power, 100% safety, 100% integration:

The innovative, versatile and scaleable high-performance plug-in connection system with 10.16 mm pitch. Connect power up to 1000 V / 76 A / 16 mm² more safely, reliably and quickly:

- 100% suitability for the application: the device will perform to data sheet specifications
 - 100% protection against mismatching - no inversion, pole displacement or a different number of poles on each connector
 - 100% wire guard (conductor protection): no dangerous contact
 - 100% reliable: dual mating profile coding, circuit board coding, plus/minus screws, etc.
 - 100% maintenance-free: vibration-proof, self-locking clamping yoke, tension clamp or Push In connection
 - 100% intuitive: easy to clip on, no tools required, automatically or with visual locking status
- Future-compatible: flexible during the design-in and processing phase, reliable in practice, powerful in operation and innovative.

The strong link in the reliability, function and value-added chain in all your performance applications.

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|------------------------------|--|---------------|-----------|-----------|
| 1947480000 | SUZ 10.16HP/02/180G AG BK BX | PCB plug-in connector, male plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, | 4032248623761 | 50 pc(s). | Box |

Datasheet

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Mating connector (fully pluggable)

rated connection, max.: 16
mm², Box

System pitch 10.16 mm (0.400 inch) - SU/BU BUZ 10.16HP/02/180 AG BK BX

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Mating connector (conditionally pluggable)

SU 10.16HP/90SF



Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|--------------------------------|---|---------------|-----------|-----------|
| 1851040000 | SU 10.16HP/02/90SF 3.5AG BK BX | PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248382002 | 50 pc(s). | Box |

SU 10.16HP/270F



Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|--------------------------------|--|---------------|-----------|-----------|
| 1813730000 | SU 10.16HP/02/270F 3.5AG BK BX | PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 270°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297955 | 50 pc(s). | Box |

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Mating connector (conditionally pluggable)
SU 10.16HP/90F


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|-------------------------------|---|---------------|-----------|-----------|
| 1813570000 | SU 10.16HP/02/90F 3.5AG BK BX | PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297788 | 50 pc(s). | Box |

SU 10.16HP/180SF


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity, additional fixing and integral positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 6 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|---------------------------------|--|---------------|-----------|-----------|
| 1850880000 | SU 10.16HP/02/180SF 3.5AG BK BX | PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 180°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248381760 | 50 pc(s). | Box |

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Mating connector (conditionally pluggable)
SU 10.16HP/180F


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- 1000 V (IEC) / 600 V (UL)
- 6 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|--------------------------------|--|---------------|-----------|-----------|
| 1813650000 | SU 10.16HP/02/180F 3.5AG BK BX | PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 180°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248297870 | 50 pc(s). | Box |

SU 10.16HP/270SF


Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

General ordering data

| Material number | Short text for material | Article - short description | EAN | Qty. | Packaging |
|----------------------------|---------------------------------|--|---------------|-----------|-----------|
| 1851120000 | SU 10.16HP/02/270SF 3.5AG BK BX | PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 270°, Solder pin length: 3.5 mm, silver-plated, black, Box | 4032248382088 | 50 pc(s). | Box |