

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

Weidmüller Interface GmbH & Co. KG
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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

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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 mm²	Clamping range, rated connection, max.	16 mm²
Conductor connection cross-section AWG, min.	AWG 22	Conductor connection cross-section AWG, max.	AWG 6
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	16 mm²
Stranded, max. H07V-R	16 mm²	Stranded, min. H07V-R	6 mm²
Flexible, min. H05(07) V-K	0.5 mm²	Flexible, max. H05(07) V-K	16 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm²	with wire end ferrule, DIN 46228 pt 1, max.	16 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm²	with plastic collar ferrule, DIN 46228 pt 4, max.	10 mm²
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
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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		

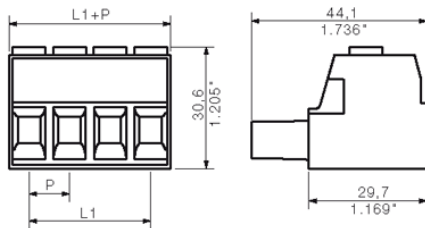
Notes

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.
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Drawings



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/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 mismating - 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

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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



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
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