PCF
PCF 5.00/18/90 3.5SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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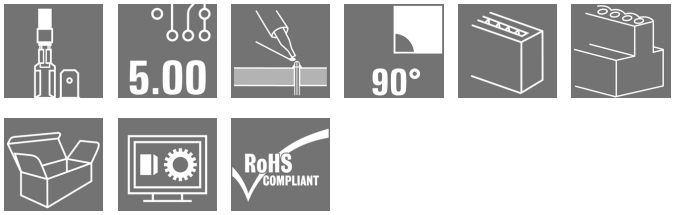
www.weidmueller.com

Product image

Similar to illustration



Flat-blade connection in 90°, 135° and 180° conductor outlet direction for 6.3 and 2.8 mm spade connector at 5.00 mm pitch

General ordering data

Type	PCF 5.00/18/90 3.5SN OR BX
Order No.	9511570000
Version	Printed circuit board terminals, 5.00 mm, No. of poles: 18, 90°, Solder pin length (l): 3.5 mm, tinned, orange, Flat-blade connection, Box
GTIN (EAN)	4008190557720
Qty.	50 pc(s).
Product data	IEC: 630 V / 24 A UL: 150 V / 15 A
Packaging	Box

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Technical data

Dimensions and weights

Width	89.8 mm	Width (inches)	3.535 inch
Height	18.4 mm	Height (inches)	0.724 inch
Height of lowest version	14.9 mm	Depth	9.8 mm
Depth (inches)	0.386 inch	Net weight	23.22 g

System parameters

Product family	PCF	Wire connection method	Flat-blade connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
No. of poles	18	Fitted by customer	No
Solder pin length (l)	3.5 mm	Solder pin dimensions	0.8 x 1.0 mm
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
Number of solder pins per pole	2	L1 in mm	85 mm
L1 in inches	3.346 inch	Touch-safe protection acc. to DIN VDE 0470	IP 00
Volume resistance	1.20 mΩ		

Material data

Insulating material	PA	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	I
CTI	≥ 600	Insulation strength	≥ 10^8 Ω
UL 94 flammability rating	V-2	Contact material	CuSn
Contact surface	tinned	Layer structure of solder connection	1.5-3 µm Ni / 5-7 µm Sn
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	24 A
Rated current, max. no. of poles (Tu=20°C)	21 A	Rated current, min. no. of poles (Tu=40°C)	24 A
Rated current, max. no. of poles (Tu=40°C)	18 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s mit 192 A

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Technical data

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	12400-282
Rated voltage (Use group B / CSA)	150 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	150 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	15 A	Rated current (Use group D / UL 1059)	10 A

Packing

Packaging	Box	VPE length	1 mm
VPE width	1 mm	VPE height	1 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002643
ETIM 5.0	EC002643	ETIM 6.0	EC002643
UNSPSC	30-21-18-01	eClass 6.2	27-26-11-01
eClass 7.1	27-44-04-01	eClass 8.1	27-44-04-01
eClass 9.0	27-44-04-01	eClass 9.1	27-44-04-01

Notes

Notes	
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals	
ROHS	Conform

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Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL_INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD

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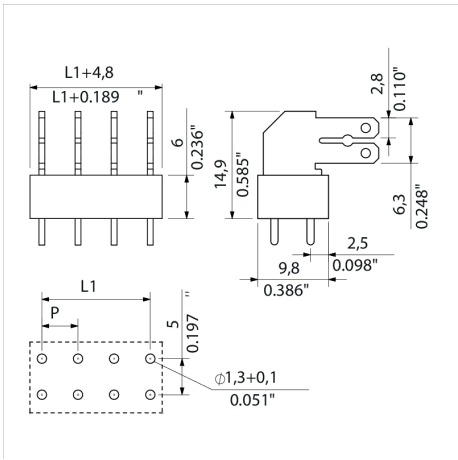
Drawings

Dimensional drawing



Wave Solder Profile

Recommended wave solderding profiles

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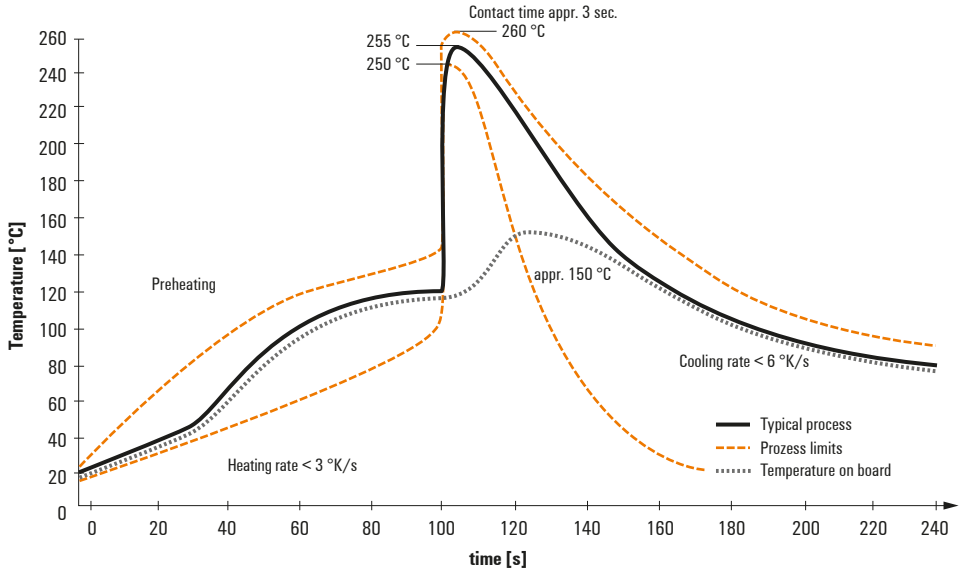
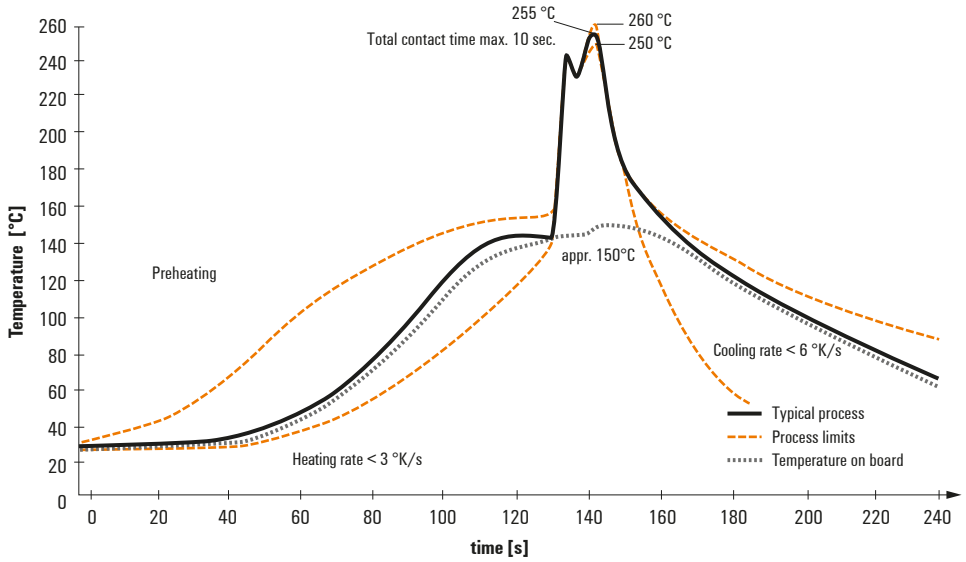
Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.