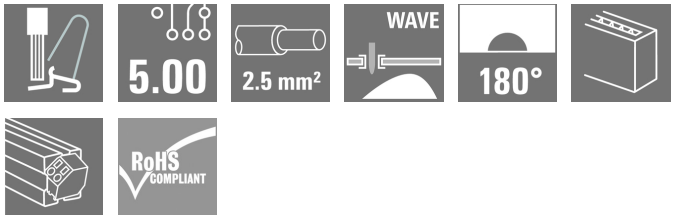
MTS SPE 5/03 V T4 B T

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Single Pair Ethernet PCB terminals
Simple and efficient SPE solutions for the PCB

Features and benefits:

- Reliable data transmission at 10 Mbit/s up to 1,000 meters
- Suitable for all IIoT devices for easy integration of field devices. The SPE PCB components are a cost-effective alternative to standardized SPE connectors
- Optionally available with PUSH IN, SNAP IN or screw connection for high contact and vibration resistance
- Error-free installation of components thanks to appropriate markings.
- The PCB terminal blocks can be used as a two-pole variant for unshielded or as a three-pole variant for shielded applications
- Thanks to the “Power over Data Line” (PoDL) function, up to 50 W can be transmitted in accordance with IEEE 802.3bu

General ordering data

Version	Printed circuit board terminals, PCB terminal, closed side, THT solder connection, 5.00 mm, Number of poles: 3, Solder pin length (l): 3.5 mm, tinned, black, Tube
Order No.	3095980000
Type	MTS SPE 5/03 V T4 B T
GTIN (EAN)	4099987119436
Qty.	31 pc(s).
Packaging	Tube

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Technical data

Dimensions and weights

Depth	13.2 mm	Depth (inches)	0.52 inch
Height	22.35 mm	Height (inches)	0.88 inch
Height of lowest version	18.85 mm	Width	17.3 mm
Width (inches)	0.681 inch	Net weight	8.162 g

Temperatures

Ambient temperature	-50 °C...125 °C	Installation temperature	-50 °C to +70 °C

System specifications

Category	T1-B	Mounting onto the PCB	THT solder connection
Number of poles	3	Number of solder pins per pole	2
Performance-Category	T1-B	Pitch in inches (P)	0.197 "
Pitch in mm (P)	5 mm	Protection degree	IP20
Side termination, characteristic	closed side	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	Solder pin dimensions	0.6 x 0.8 mm
Solder pin length (l)	3.5 mm	Soldering process	Manual soldering, Wave soldering

Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Tinning type	matt
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C

Packing

Packaging	Tube	VPE length	0 mm
VPE width	0 mm	VPE height	0 mm

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 9.0	27-44-04-01
ECLASS 9.1	27-44-04-01	ECLASS 10.0	27-44-04-01
ECLASS 11.0	27-46-01-01	ECLASS 12.0	27-46-01-01
ECLASS 13.0	27-46-01-01	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Approvals

ROHS	Conform

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Technical data

Downloads

Product Change Notification	PCN_Re-Design der MTS 5 zur THR-Fähigkeit

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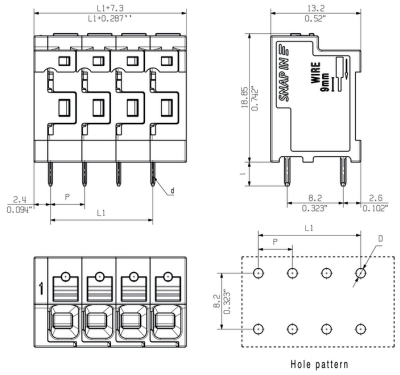
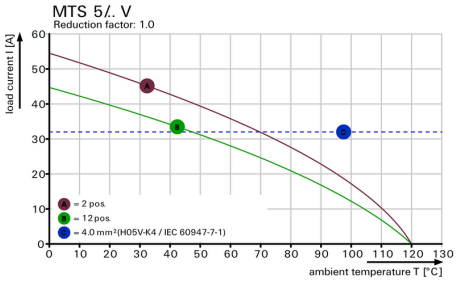
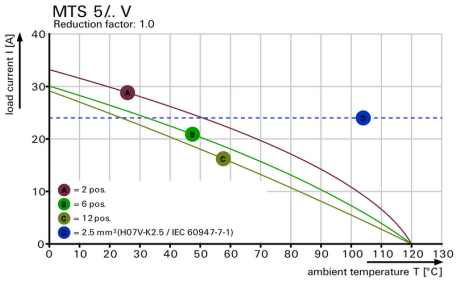
Drawings







Wave Solder Profile

Recommended wave solderding profiles

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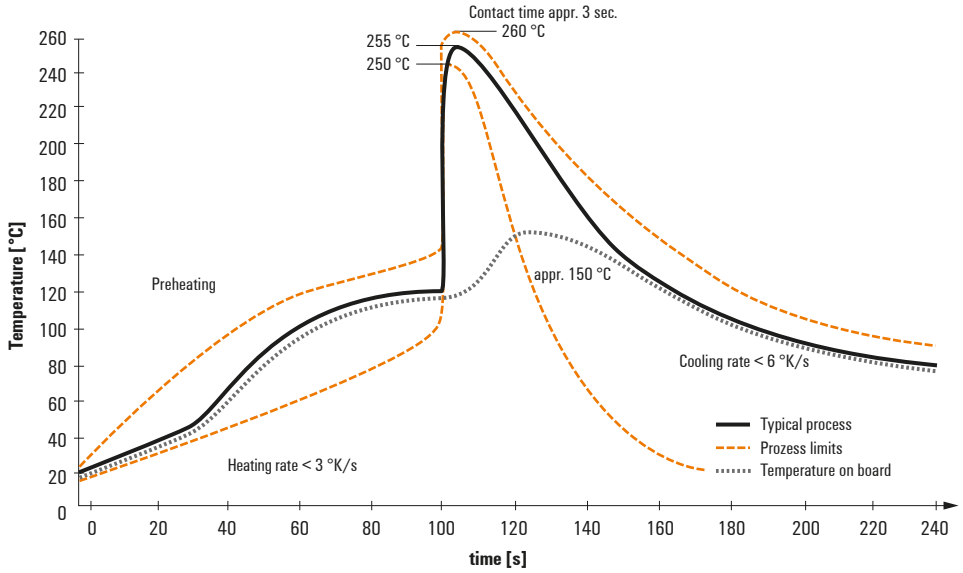
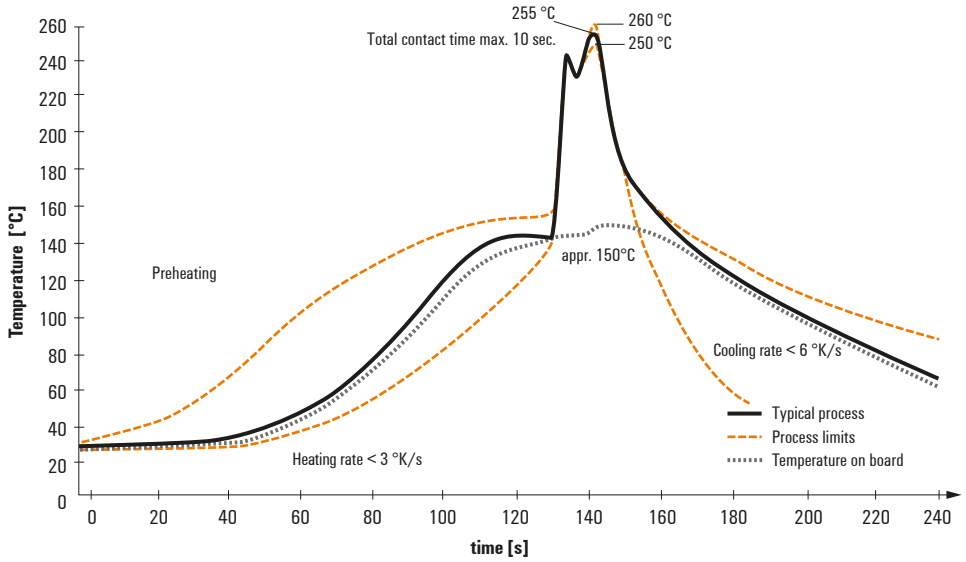
Single Wave:



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.