

## MPS APL 5/03 S F2 TN B B D D

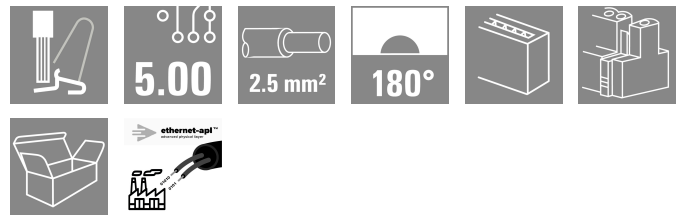
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



### Features and benefits:

- Ethernet-APL compliant
- Space and weight saving design
- Cost-effective alternative to RJ45 and M12 connections
- Available with PUSH IN, SNAP IN, clamping yoke or tension spring connection
- Suitable for THT and THR soldering processes
- 10 Mbit/s communication for long ranges (1000m) according to IEEE 802.3cg-2019
- PoDL remote power supply according to IEEE 802.3bu
- Ethernet-APL is suitable for all IIoT devices and tailored for the process industry

### General ordering data

Version	PCB plug-in connector, female plug, Pitch in mm (P): 5.00 mm, Number of poles: 3, 180°, Box
Order No.	<a href="#">8000094097</a>
Type	MPS APL 5/03 S F2 TN B B D D
GTIN (EAN)	4064675859758
Qty.	114 items
Product data	IEC: 400 V / 26.8 A / 0.5 - 4 mm <sup>2</sup> UL: 300 V / 18.5 A / AWG 20 - AWG 12
Packaging	Box

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

## Dimensions and weights

Depth	34 mm	Depth (inches)	1.3386 inch
Height	17.5 mm	Height (inches)	0.689 inch
Width	15.8 mm	Width (inches)	0.622 inch
Net weight	7.02 g		

## Temperatures

Ambient temperature -50 °C...125 °C

## Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

## System specifications

Number of poles	3	Pitch in inches (P)	0.197 "
Side termination, characteristic	closed side / middle flange, closed side	Plugging force/pole, max.	8.5 N
Transmission rate	10/100 MBit/s	Pulling force/pole, max.	8.5 N
Type of connection	Field connection	Product family	OMNIMATE 4.0
Pitch in mm (P)	5.00 mm	Protection degree	IP20
Plugging cycles	25	Outgoing elbow	180°
Performance-Category	10/100 MBit/s		

## Electrical properties

Volume resistance  $\leq 5 \text{ m}\Omega$

## Material data

Insulating material	PBT GF	Colour	black
Colour of operational elements	orange	Colour chart (similar)	RAL 9011
Insulating material group	I	Comparative Tracking Index (CTI)	$\geq 600$
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C

## Packing

Packaging	Box	VPE length	351.00 mm
VPE width	136.00 mm	VPE height	42.00 mm

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### Important note

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.
Notes	<ul style="list-style-type: none"> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

### Classifications

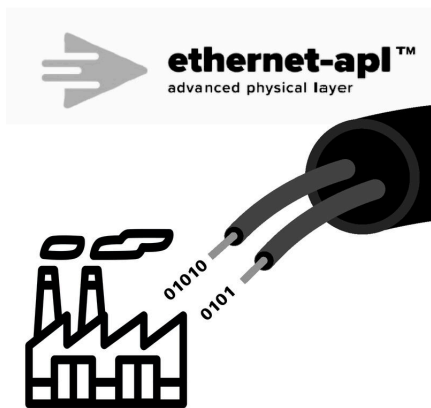
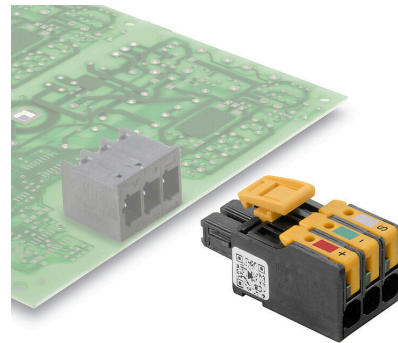
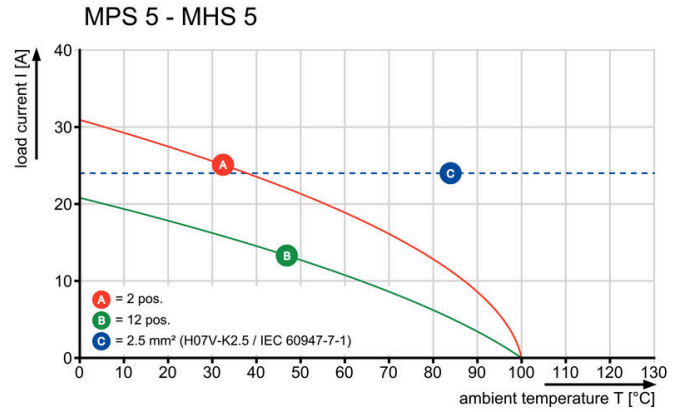
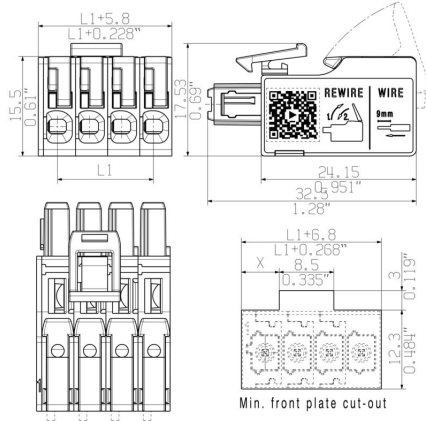
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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Drawings



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## Counterpart

## 180° / Vertical



OMNIMATE® 4.0 - the next evolution step OMNIMATE® 4.0 follows the trend of One Cable Technology (OCT).

The modular concept enables the fast configuration of hybrid interfaces, which transmit data, signals and energy in a single connector. As a result, you can reduce the cabling effort in a wide variety of applications, simplify maintenance and accelerate automation processes. The unique SNAP IN connection is the backbone and speeds up the wiring process. The fastest connection yet

- Fast, safe, and tool-free wiring due to unique SNAP IN connection
  - Ready for Robot through "wire ready" delivery with open clamping point
  - Optical and acoustic feedback indicates proper wiring
- Create your own configuration
- Flexible configuration and ordering via the Weidmüller Configurator (WMC)
  - Dispatch within three days – even for individually configured products
  - Automatic offer preparation for the configured product
- Simply configuration of modular hybrid connectors
- Flexible combination options for power, signal and data transmission
  - Future-proof Single-Pair Ethernet technology

## General ordering data

Type	MHS 5/03 V T3 B T	Version	
Order No.	<a href="#">8000072430</a>		PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675422983		Pitch in mm (P): 5.00 mm, Number of poles: 3, 180°, Tube
Qty.	33 ST		

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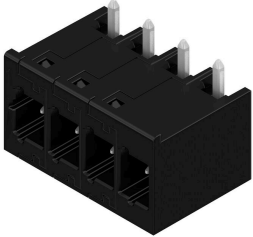
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## Counterpart

## 270° / Horizontal



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## General ordering data

Type	MHS 5/03 W T3 B T	Version	
Order No.	<a href="#">8000072503</a>		PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675330806		Pitch in mm (P): 5.00 mm, Number of poles: 3, 270°, Tube
Qty.	33 ST		

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## Counterpart

## 90° / Horizontal



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## General ordering data

Type	MHS 5/03 H T3 B T	Version	
Order No.	<a href="#">2741420000</a>		PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675055396		Pitch in mm (P): 5.00 mm, Number of poles: 3, 90°, Tube
Qty.	33 ST		