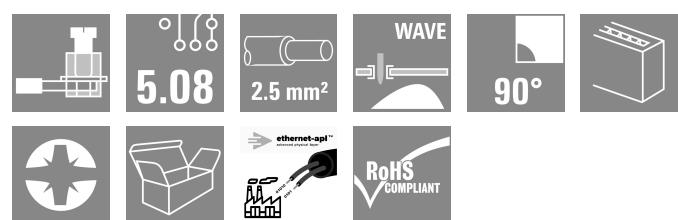


## LM APL 5.08/03/90 3.5SN OR BX

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

[www.weidmueller.com](http://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	Printed circuit board terminals, 5.08 mm, Number of poles: 3, 90°, Solder pin length (l): 3.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
Order No.	<a href="#">2873500000</a>
Type	LM APL 5.08/03/90 3.5SN OR BX
GTIN (EAN)	4064675644538
Qty.	500 items
Product data	IEC: 630 V / 17.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 24 - AWG 14
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	10 mm	Depth (inches)	0.3937 inch
Height	17.3 mm	Height (inches)	0.6811 inch
Height of lowest version	13.8 mm	Width	15.79 mm
Width (inches)	0.6217 inch	Net weight	3.62 g

## Environmental Product Compliance

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

## System specifications

Number of poles	3	Solder pin length (l)	3.5 mm
Mounting onto the PCB	THT solder connection	Pitch in inches (P)	0.200 "
Side termination, characteristic	closed side	Solder eyelet hole diameter tolerance (D)	+ 0.1 mm
Transmission rate	10 / 100 Mbps	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.3 mm	Product family	OMNIMATE Signal - series LM
Pitch in mm (P)	5.08 mm	Protection degree	IP20
Performance-Category	10 / 100 Mbps	Soldering process	Manual soldering, Wave soldering
Solder pin dimensions	0.95 x 0.8 mm	Tolerance of solder pin position	± 0.1 mm

## Electrical properties

Volume resistance 1.20 mΩ

## Material data

Insulating material	Wemid (PA)	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Coating	1-3 µm Ni, 4-6 µm Sn
Tinning type	matt	Layer structure of solder connection	1...3 µm Ni / 4...6 µm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C

## Packing

Packaging	Box	VPE length	247.00 mm
VPE width	173.00 mm	VPE height	84.00 mm

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## Technical data

## Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03
	Test	mark of origin, type identification, pitch, type of material, approval marking UL, approval marking CSA, durability
	Evaluation	available
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02
	Conductor type	Type of conductor solid 0.2 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.2 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 2.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	Type of conductor stranded 0.25 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
Conductor type		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor solid 2.5 mm <sup>2</sup> and conductor cross-section

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## Technical data

Pull-out test	Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor and conductor cross-section stranded 0.25 mm <sup>2</sup>
	Evaluation	AWG 24/1
	Requirement	≥20 N
	Conductor type	Type of conductor and conductor cross-section H05V-U0.5
	Evaluation	passed
	Requirement	≥40 N
	Conductor type	Type of conductor and conductor cross-section H07V-K1.5
	Evaluation	passed
	Requirement	≥50 N
	Conductor type	Type of conductor and conductor cross-section H07V-U2.5
	Evaluation	AWG 14/1
	Requirement	AWG 14/19
	Evaluation	passed

## 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>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

## Classifications

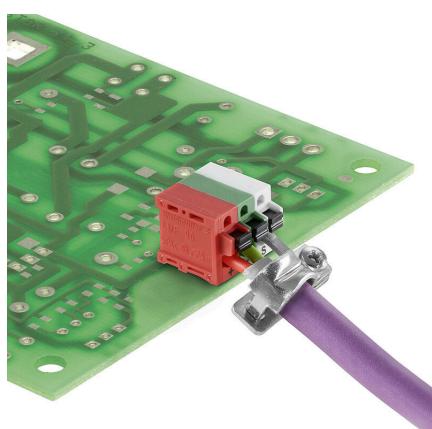
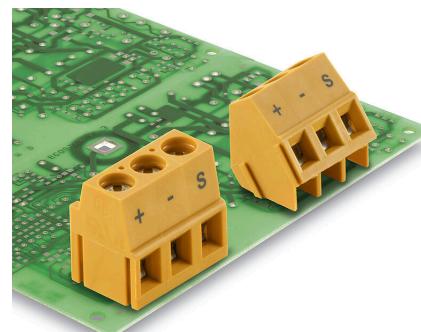
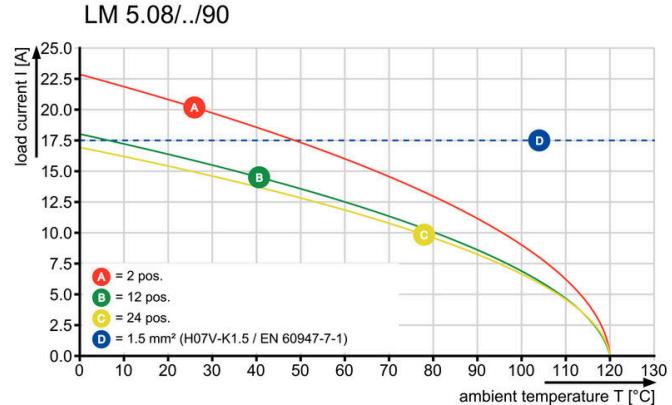
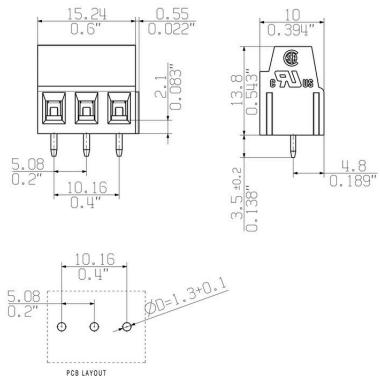
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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## Drawings

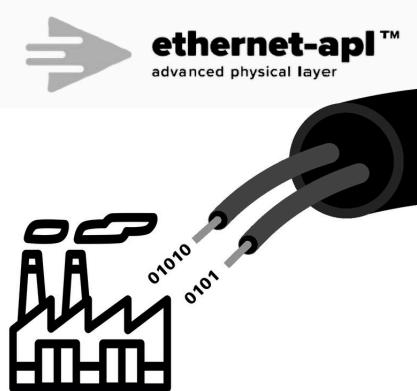


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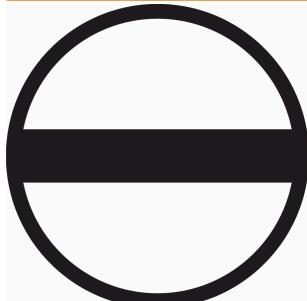
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## Accessories

## Slotted screwdriver

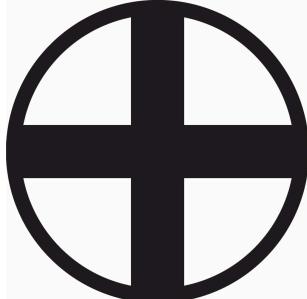


VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

## General ordering data

Type	SDIS 0.6X3.5X100	Version
Order No.	<a href="#">2749810000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm
Qty.	1 ST	
Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">2749340000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	

## Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

## General ordering data

Type	SDK PH0 X 60	Version
Order No.	<a href="#">2749400000</a>	Screwdriver, Blade width (B): 3 mm, 60 mm, Blade thickness (A): 0
GTIN (EAN)	4050118895629	
Qty.	1 ST	

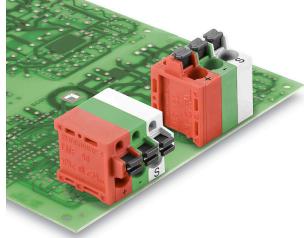
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## Accessories

## Ethernet-APL



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- Ethernet-APL is suitable for all IIoT devices and tailored for the process industry

## General ordering data

Type	SH ETH U	Version
Order No.	<a href="#">2903230000</a>	Shield clamp, Accessories, Screw flange, Number of poles: 1, zinc
GTIN (EAN)	4099986575172	plated, Silver grey, Box
Qty.	25 ST	