Data sheet
IT02304HMNU000 PROFINET

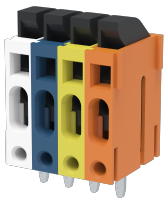
P/N
AIT0230499-000

2026/11/23
Version: S

Illustrations

Dimensional drawing as an example

Drill pattern as an example



See enlarged drawings at the end of document

Product specification

- ethernet-compatible insulation displacement connector, solderable
- for 100 MBit Fast Ethernet (IEEE 802.3u)
- suitable for Power over Ethernet (PoE, PoE plus)
- centerline 3.50 mm, direction of connection 90°
- modular
- color coding for conductor colors according to PROFINET (white/blue/yellow/orange)
- discontinued as of December 31, 2026

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Technical Data

General Data			
Solder pin length	3.5 mm		
pole size	4		
Insulating material class	CTI 600		
clearance/creepage dist.	2.3 mm		
Protection category	IP20		
wire insulation	1.8 mm		
Rated current	2.5 A		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	160 V	400 V	400 V
Rated test voltage	4 kV	4 kV	4 kV
Terminal data			
rat.wiring solid AWGmax	0.2 mm² - 0.34 mm² / AWG 24 - AWG 22		
rat.wiring strand.AWGmax	0.2 mm² - 0.34 mm² / AWG 24 - AWG 22		
Approvals			
V / A / AWG	150 / 2.5 / 24 - 22		
approval UL - File No.	E121004		
	130 V / 5 A / T60		
Transmission characteristics			
Data transmission according to IEEE 802.3i/u/y	10/100 MBit/s up to 100 m		
Power transmission	PoE, IEEE 802.3af, 15,4 W PoE+, IEEE 802.3at, 30 W		
Material			
insulating material	PA66		
flammability class	V0		
contact material	CuSn		
Contact surface	Sn		
Glow-Wire Flammability GWFI	850 °C acc. to IEC 60695-2-12		
Glow-Wire Flammability GWIT	775 °C acc. to IEC 60695-2-13		
Climatic Data			

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Technical Data

upper limit temperature	105 °C
lower limit temperature	-40 °C
general	
Tolerance	ISO 2768 -mH
Solderability	Acc. to JEDEC JESD22-B102E 245°C/5s
Note PCB compensation	The PCB compensation is necessary to achieve the specified data transmission specifications

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.

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Illustrations

Dimensional drawing as an example



L=(pole size - 1) x centerline + 3.5 mm [0.138]

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Illustrations

Drill pattern as an example



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Illustrations

PCB-Layout



General PCB specifications

- PCB with solder resist
- PCB thickness: 1.5 mm / 2-ply
- Material: FR4
- Dielectric constant: relative permittivity = 4.4
- Copper thickness: 40 µm

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