

Data sheet

Smart meter coupler RJ45/RJ45 shielded

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P/N

140120APZ-E

EAN 4251394689845

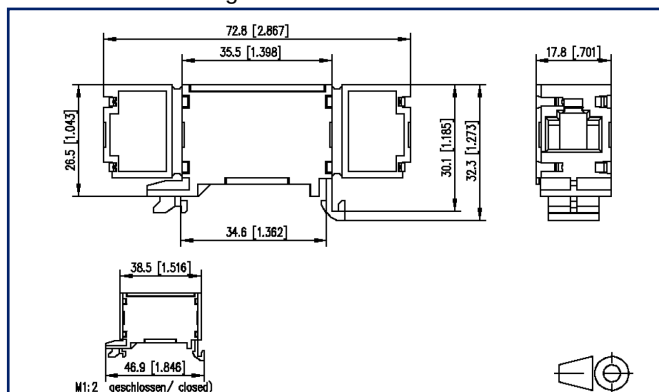
2026/09/04

Version: C

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- shielded RJ45 Plug + Play solution with patch/patch design
- prevention of wiring errors
- one article for all applications (for DIN rail, meter cabinet or meter board)
- in combination with 6 kV patch cords with the insulation required for meter locations (no additional insulation sleeve necessary)
- application rule is implemented quickly and easily
- suitable for meter locations according to DIN VDE 0603-1
- particularly suitable as a Plug + Play solution for businesses looking to set up cabling for energy management systems in accordance with ISO 50001 or energy audits in accordance with DIN EN 16247
- transmission speed up to 10 Gbit/s
- housing in protection class 2
- surge voltage insulation test: Rated surge voltage Uimp 4 kV



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Technical Data

General Data

Fields of application	structured building cabling Distributed building services
Mechanical measurement according to MICE	M1
Ingress measurement according to MICE	I1
Climatic measurement according to MICE	C1
Electromagnetic measurement according to MICE	E2
Design	wall outlet
Shielding	shielded
Transmission technology	Copper
Color	light gray - RAL 7035
Dimensions	
Dimension (L x W x H)	72.8 mm x 32.3 mm x 17.8 mm
Dimension (L x W x H)	2.866 in. x 1.272 in. x 0.701 in.

Transmission characteristics

SAT-IP	yes
AVoverIP	yes
Transmission rate up to 100 MBit (Fast Ethernet)	IEEE 802.3bw
Transmission rate up to 1 GBit (Fast Ethernet)	IEEE 802.3ab
Transmission rate up to 10 GBit	IEEE 802.3an
Transmission rate up to 10 Mbit/s	IEEE 802.3i

Connections/interfaces

Connector technology interface 1	RJ45-jack
Connector technology interface 2	RJ45-jack
Number of ports interface 1	1
Number of ports interface 2	1
Number of equipped ports interface 1	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	8P/8C
Number of positions/contacts interface 2	8P/8C



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Electrical/ optical properties

Current carrying capacity	max. 1 A at 60 °C
Rated voltage	max. 60 V DC
Contact resistance	max. 20 mOhm
Insulation resistance	min. 500 MOhm
Dielectric strength conductor-conductor (secondary)	min. 1000 V DC
Dielectric strength conductor-shield	min. 1500 V DC

Mechanical data

Insertion and withdrawal force	max. 30 N
Life - Number of mating cycles	min. 750
Position/mounting of latch standard installation position	top

Materials and material properties

Material - Housing	PA 66 UL V0
Material - Coupler housing	GD-Zn
Material - Contact	Spring steel
Material - Contact finish	Ni + Au (nickel-gold)
Material - Shield	CuZnPb (brass)
Material - Shield finish	Sn
Material - Protective cap	PA 66 UL V0
RoHS	compliant

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 °C - 70 °C
Temperature - Storage °F	-40 °F - 158 °F
Temperature - Operating °C	-40 °C - 70 °C
Temperature - Operating °F	-40 °F - 158 °F
Particulate ingress	IP2X
Liquid ingress/immersion	IPX0



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Standards/Regulations

Generic cabling systems

General requirements

ISO/IEC 11801-1 | DIN EN 50173-1
ANSI/TIA-568.2-D

Connectors for electronic equipment

Free and fixed connectors

DIN EN 60603-7-5:2011-03

Connectors for electronic equipment - Tests and measurements

Endurance tests

IEC 60512-9-3: 03-2009

Classifications

ETIM 9.0

EC001024

ETIM 10.0

EC001024

Packing details

Type of packaging

1 pc(s) / box

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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Accessories

P/N	Designation
13084APZ10-E	Patch cord 6kV 1.0 m blue-black
13084APZ20-E	Patch cord 6kV 2.0 m blue-black
13084APZ30-E	Patch cord 6kV 3.0 m blue-black
13084APZ50-E	Patch cord 6kV 5.0 m blue-black
13084APZXX-E	Patch cord 6kV blue-black
13084F0500-E	Patch cord 6kV Flex500 Outdoor 0.5 m black
13084F1000-E	Patch cord 6kV Flex500 Outdoor 1.0 m black
13084F2000-E	Patch cord 6kV Flex500 Outdoor 2.0 m black
13084F3000-E	Patch cord 6kV Flex500 Outdoor 3.0 m black
13084F5000-E	Patch cord 6kV Flex500 Outdoor 5.0 m black
13084FA000-E	Patch cord 6kV Flex500 Outdoor 10.0 m black
13084FB000-E	Patch cord 6kV Flex500 Outdoor 20.0 m black

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