M17-7ES1N8AW600S - Device connector front mounting

1628909

https://www.phoenixcontact.com/us/products/1628909

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M17, Device connector front mounting, series: M17 PRO, straight, for standard and ONECLICK fast locking system, No. of pos.: 7+PE, contact connection type: Socket, Crimp connection, flange dimensions: 28 mm x 28 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Modern, consistent design for highly convenient operation
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

Commercial data

Item number	1628909
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB36
Product key	ABRBAL
GTIN	4055626706849
Weight per piece (including packing)	51.6 g
Weight per piece (excluding packing)	51.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	Order 8 x Ø 1 mm crimp contacts separately

Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting

	warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connectors (device side)

Material specifications

Flammability rating according to UL 94	V0

Connector

Insulating body

Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Number of positions	8
Connection profile	7+PE
Contact diameter Power contacts	1 mm
Litz wire cross-section Power contacts min.	0.06 mm²
Litz wire cross-section Power contacts max.	1 mm²
Rated current Power contacts	14 A
Note	for max. connection cross section
Rated voltage	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Installation height	2000 m

Housing

Housing material	GD-Zn
Flange dimensions	28 mm x 28 mm
Type of locking	for standard and ONECLICK fast locking system
Degree of protection (plugged in)	IP67
	IP68, 24 h / 2 m
Thread type	M17

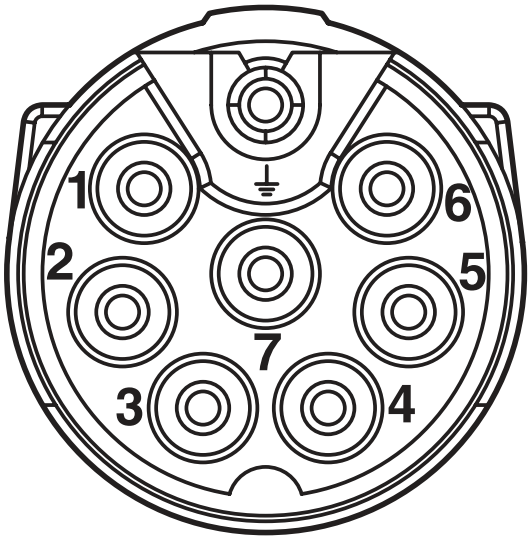
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (see derating curve)

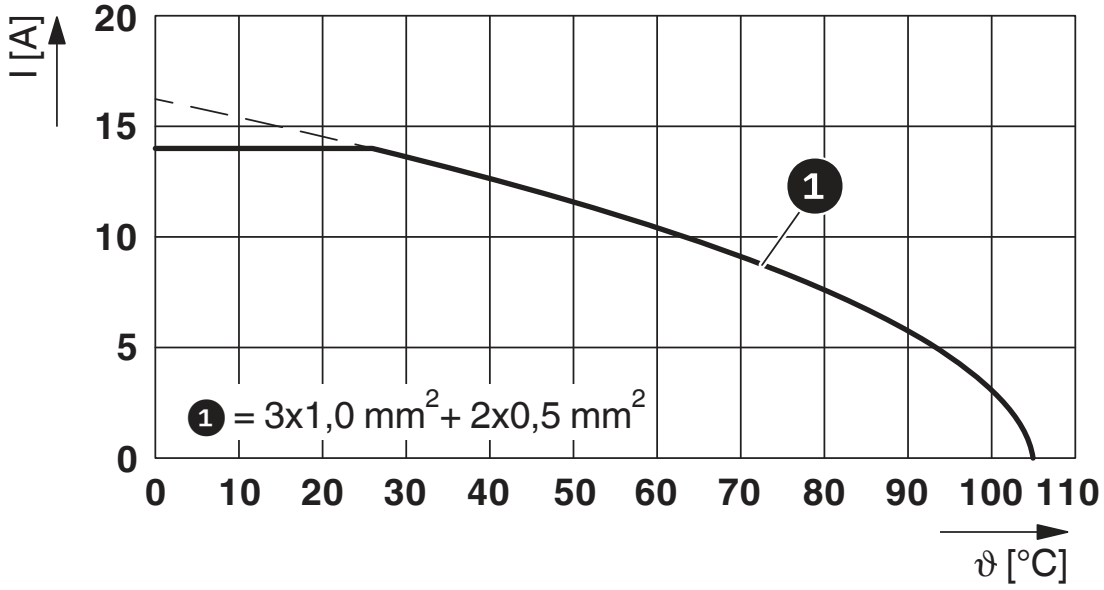
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

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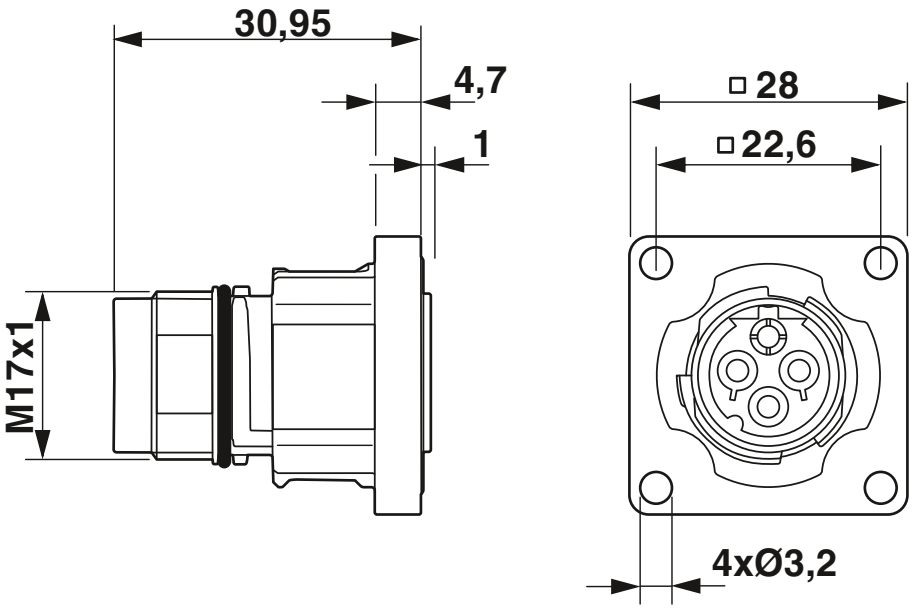
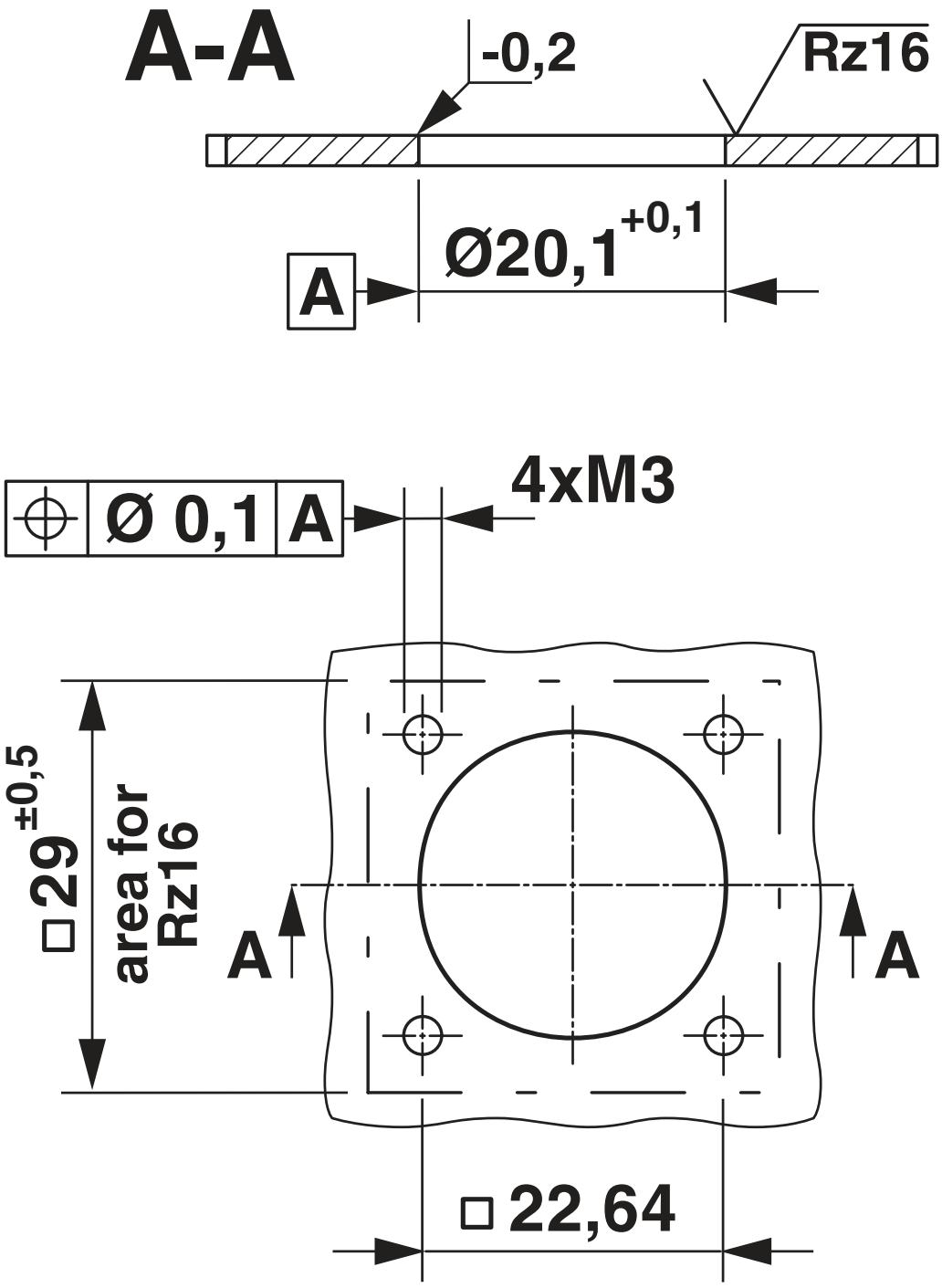
Dimensional drawing



Dimensional drawing

Dimensional drawing



Installation dimensions

Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 8.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Accessories

ST-Z0014 - Metal protective cap

1616069

https://www.phoenixcontact.com/us/products/1616069

Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243010

ST-Z0013 - Metal protective cap

1616068

https://www.phoenixcontact.com/us/products/1616068

Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243009

M17PRO-VIB-ORING - Sealing ring

1431550

https://www.phoenixcontact.com/us/products/1431550

Vibration O-ring, optional accessory for M17 PRO device connectors

ST-10KS010 - Crimp contact

1618239

https://www.phoenixcontact.com/us/products/1618239

Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm^2 ... 0.25 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243216

ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/us/products/1618464

Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.25 mm^2 .. . 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243216

PROT-M17PRO-OT-IP20 - Plastic protective cap

1055708

https://www.phoenixcontact.com/us/products/1055708

Plastic protective cap, M17, degree of protection: IP20, series: M17 PRO

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PROT-M17PRO-OT-IP67 - Plastic protective cap

1055717

https://www.phoenixcontact.com/us/products/1055717

Plastic protective cap, M17, degree of protection: IP67, series: M17 PRO

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