

1407503

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## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission reliability: optional shield connection to the housing by means of shield contact

### Commercial data

Item number	1407503
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB26
Product key	ABQEHB
GTIN	4046356807920
Weight per piece (including packing)	17.005 g
Weight per piece (excluding packing)	15.844 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Notes

Notes on operation	The electrical and mechanical data specified assumes that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of pollution, the connector must be sealed using a protective cap >IP54. Influences arising from litz wires, cables, or PCB mounting must also be taken into consideration. Additional mechanical fixing of the PCB is required.
Order information:	Lock nut is included in the scope of delivery

## Mounting

Mounting type	Rear mounting (M16 x 1,5)
Tightening torque	3 Nm 4 Nm (Installation-side)

### Product properties

Product type	Circular connectors (device side)
Application	Data, signals
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	Υ
Thread type	M12

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Insulating body	PPA
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

#### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC (Power and data)
	50 V DC (Power and data)



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Nominal current I <sub>N</sub>	0.5 A (Data)
	6 A (Power)
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

#### Connection data

#### Conductor connection

Connection method	Wave soldering
Contact connection type	Socket
Tightening torque	3 Nm 4 Nm (Installation-side)

#### Mechanical properties

#### Mechanical data

#### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	Υ

#### Cable/line

Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C
Ambient temperature (operation)	-40 °C 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

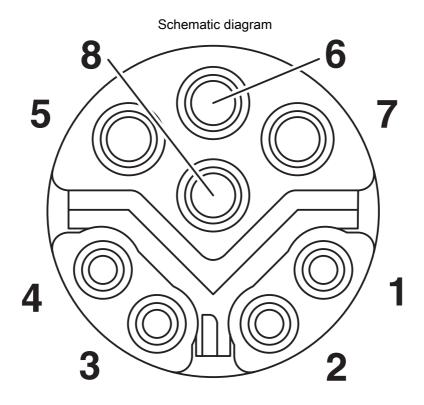
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-113



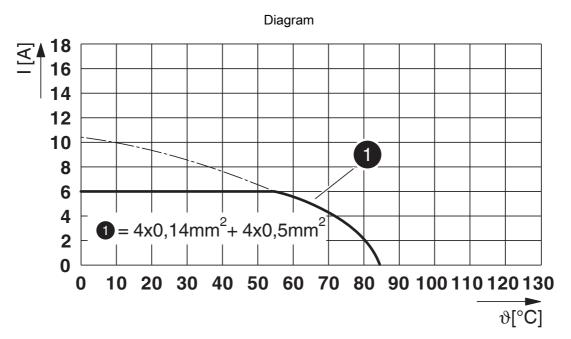
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## **Drawings**



Pin assignment of socket, 8-pos., Y-coded, socket side view



I = current strength, T = ambient temperature



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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1407503

cUL Recog Approval ID: E3	<b>nized</b> 335024-20120308			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Power	56 V	0.175 A	-	-
Data	30 V	0.5 A	-	-

UL Recognized Approval ID: E33502	<b>1</b> 24-20120308			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Power	56 V	0.175 A	-	-
Data	30 V	0.5 A	-	-



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27440110	
	ECLASS-15.0	27440110	
ETIM			
	ETIM 9.0	EC003568	
U	NSPSC		
	UNSPSC 21.0	39121400	



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	1e0a0e10-e2c3-4761-94d5-05a2e0e4c20f

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